PRELIMINARY REPORT OF 060902

last update on Sat Sep 2 16:39:18 GMT 2006

1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P), global monitoring products (ASA_GM1_1P), which are the available few hours after the acquisition, on the browse (BP) products and
on the Module Stepping (MS) product.

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period.

2.2 - Auxiliary files

Summary of the auxiliary files used from 2006-09-01 00:00:00 to 2006-09-02 16:39:18

PDHS-K					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	43	83	18	4	0
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	43	83	18	4	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	43	83	18	4	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	43	83	18	4	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	24	57	47	15	48
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	24	57	47	15	48
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	24	57	47	15	48
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	24	57	47	15	48

2.3 - Browse Visual Inspection

2.4 - Data Analysis

-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

3 - Module Stepping Mode

No anomalies observed on available MS products:

Polarisation	Start Time
V	20060831 100807
H	20060901 143818

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference

MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒
☒	☒

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS
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☒

4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1
☒
☒

4.2 - Cyclic statistics

4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS
☒

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.942346	0.009858	0.006640
7	P1	-3.076301	0.051592	0.108593
11	P1	-4.082569	0.064614	0.087888
15	P1	-6.200777	0.094917	0.057215
19	P1	-3.471190	0.009198	-0.078235
22	P1	-4.563149	0.024682	0.010850
26	P1	-3.929631	0.018932	-0.030594
30	P1	-5.761284	0.025300	0.008094
3	P1	-16.552227	0.263460	-0.072215
7	P1	-16.848677	0.642669	0.429695
11	P1	-16.831430	0.307589	0.153620
15	P1	-12.959741	0.149484	0.096345
19	P1	-14.527771	0.052329	-0.094392
22	P1	-15.826701	0.554352	0.356222
26	P1	-15.174146	0.205202	-0.133924
30	P1	-17.005457	0.318523	0.149068

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.862738	0.084813	0.106366
7	P2	-21.858892	0.099565	-0.000397
11	P2	-15.749937	0.113040	0.041096
15	P2	-7.099562	0.098382	0.034731
19	P2	-9.114234	0.091943	0.014018
22	P2	-18.133369	0.086275	0.048254
26	P2	-16.397272	0.093250	0.000546
30	P2	-19.477364	0.091208	0.038797

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.172990	0.003819	-0.004820
7	P3	-8.172990	0.003819	-0.004820
11	P3	-8.172990	0.003819	-0.004820
15	P3	-8.172990	0.003819	-0.004820
19	P3	-8.172990	0.003819	-0.004820
22	P3	-8.172990	0.003819	-0.004820
26	P3	-8.173039	0.003818	-0.004783
30	P3	-8.173039	0.003818	-0.004783

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1


P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.833675	0.021319	-0.020779
7	P1	-2.496523	0.281906	0.234942
11	P1	-2.898482	0.141174	0.064339
15	P1	-3.657276	0.145606	0.018215
19	P1	-3.430493	0.013274	-0.021709
22	P1	-5.082794	0.034263	-0.005250
26	P1	-5.871161	0.024701	-0.015560
30	P1	-5.185487	0.037826	0.027728
3	P1	-11.629499	0.066910	-0.012579
7	P1	-9.918614	0.187632	0.095374
11	P1	-10.304012	0.084347	-0.077619
15	P1	-10.825910	0.176738	-0.138422
19	P1	-15.533197	0.087567	-0.010742
22	P1	-20.867090	1.740425	0.306500
26	P1	-16.074839	0.411227	0.336615
30	P1	-17.984016	0.720556	-0.021729

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.457905	0.081924	0.116688
7	P2	-22.245945	0.196202	0.138809
11	P2	-10.936844	0.056047	0.128777
15	P2	-4.876090	0.042033	0.039032
19	P2	-6.853893	0.040559	0.022253
22	P2	-8.176677	0.062075	0.044981
26	P2	-24.166960	0.126965	0.014937
30	P2	-21.966337	0.077770	0.025661

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.014774	0.003713	-0.012146
7	P3	-8.014672	0.003723	-0.012078
11	P3	-8.014709	0.003726	-0.011416
15	P3	-8.014711	0.003726	-0.011492
19	P3	-8.014802	0.003741	-0.012107
22	P3	-8.014880	0.003712	-0.011763
26	P3	-8.014741	0.003716	-0.012173
30	P3	-8.014694	0.003721	-0.011704

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

4.3.2 - Evolution for GM1

5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000554287
	stdev	1.76052e-07
MEAN Q	mean	0.000532685
	stdev	2.15014e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136554
	stdev	0.00107821
STDEV Q	mean	0.136901
	stdev	0.00109471

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006090[112]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_GM1_1PNPDK20060901_084711_000006702050_00451_23551_3941.N1	0	21
ASA_WSM_1PNPDE20060901_183643_000002072050_00457_23557_0466.N1	0	67
ASA_WSM_1PNPDE20060902_020157_000000862050_00461_23561_0501.N1	0	34

7 - Doppler Analysis

Preliminary report.The data is not yet controled

7.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler

Acsending

Descending

7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX


7.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)

Acsending

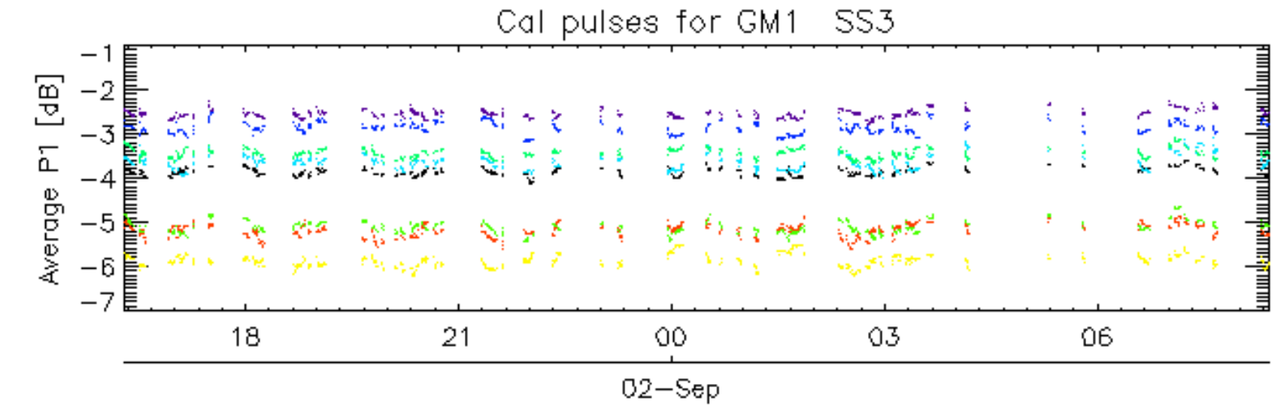

Descending

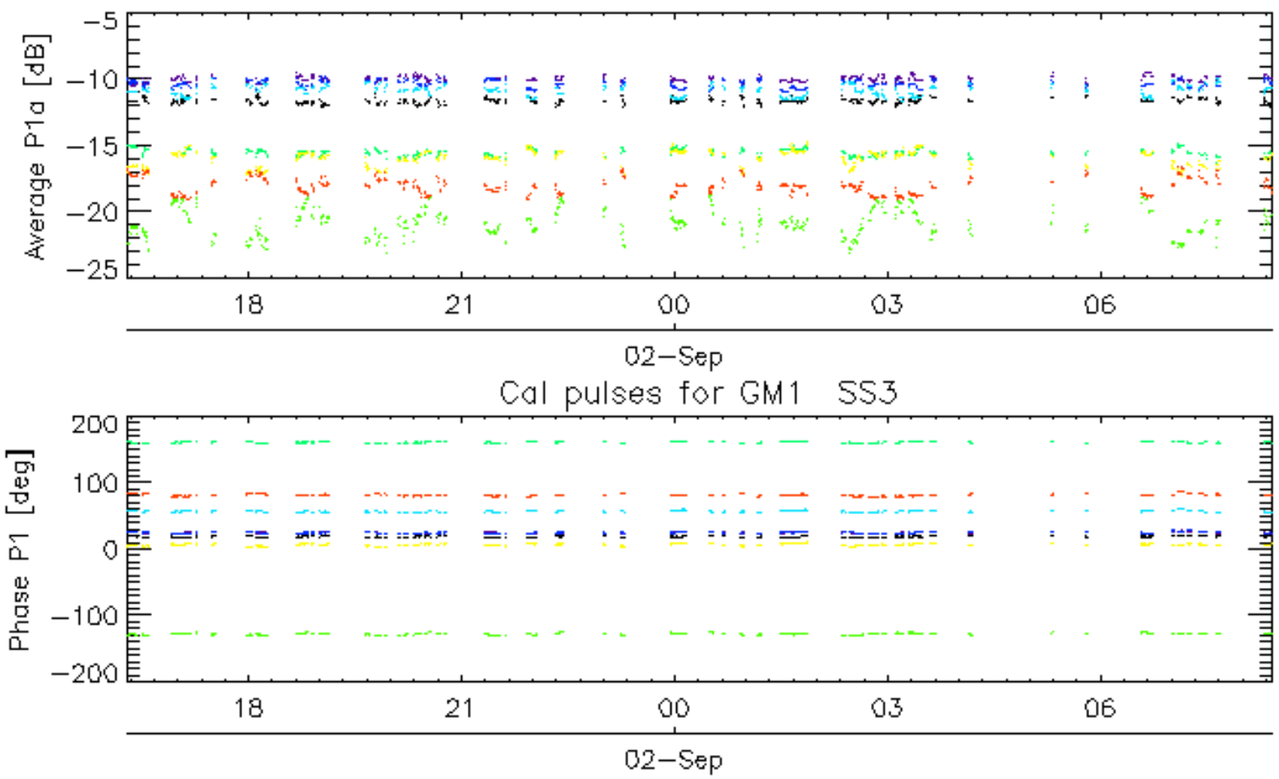
7.5 - Absolute Doppler for GM1

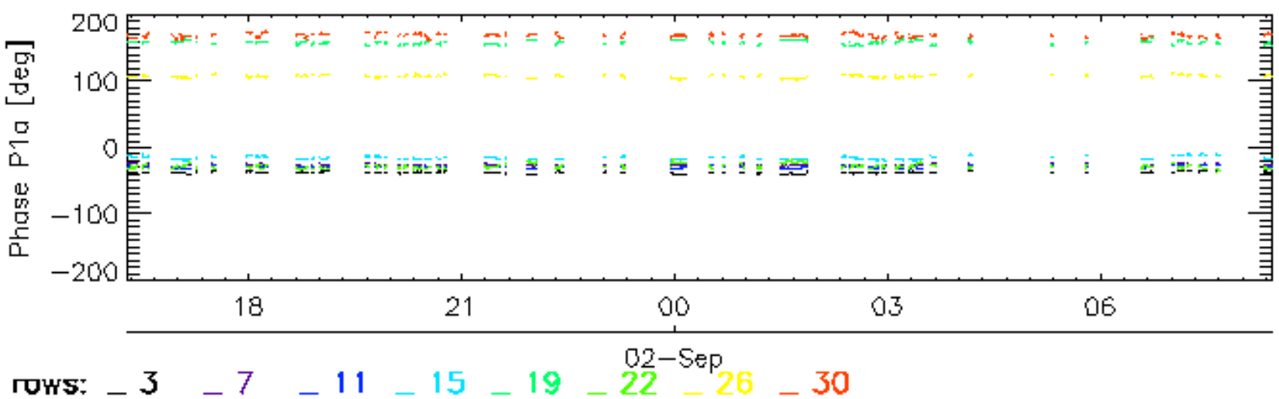
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

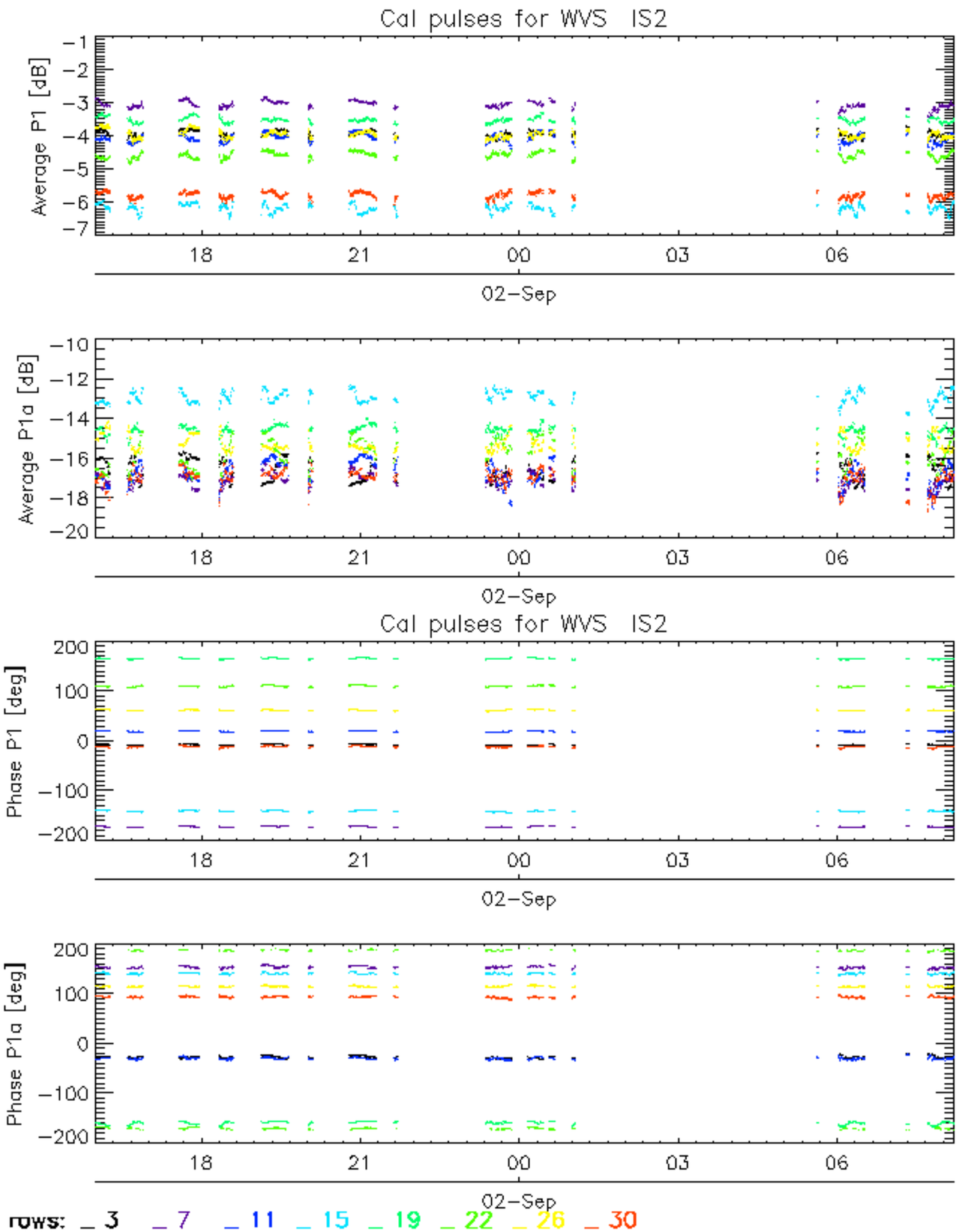
7.6 - Doppler evolution versus ANX for GM1

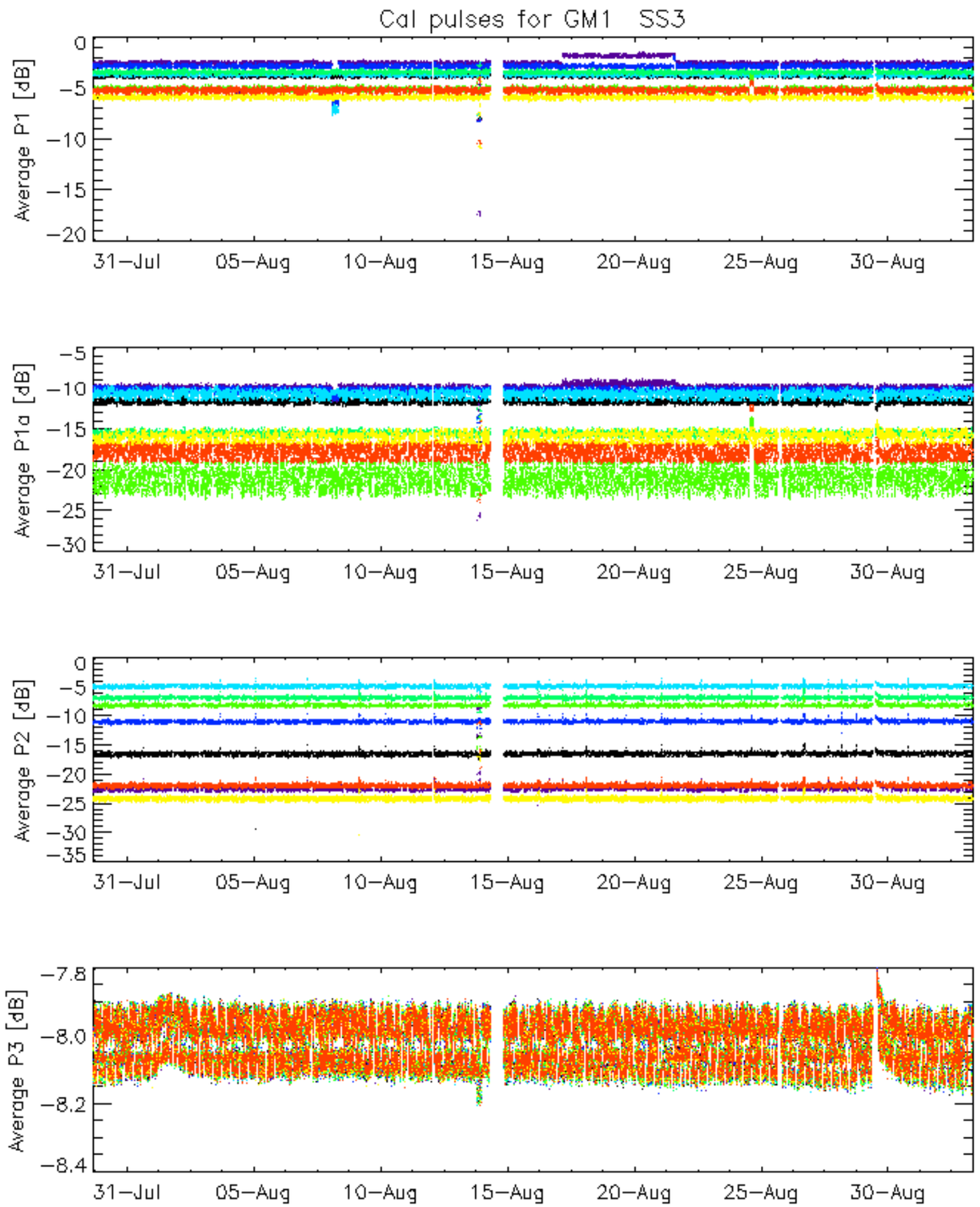
Evolution Doppler error versus ANX
☒

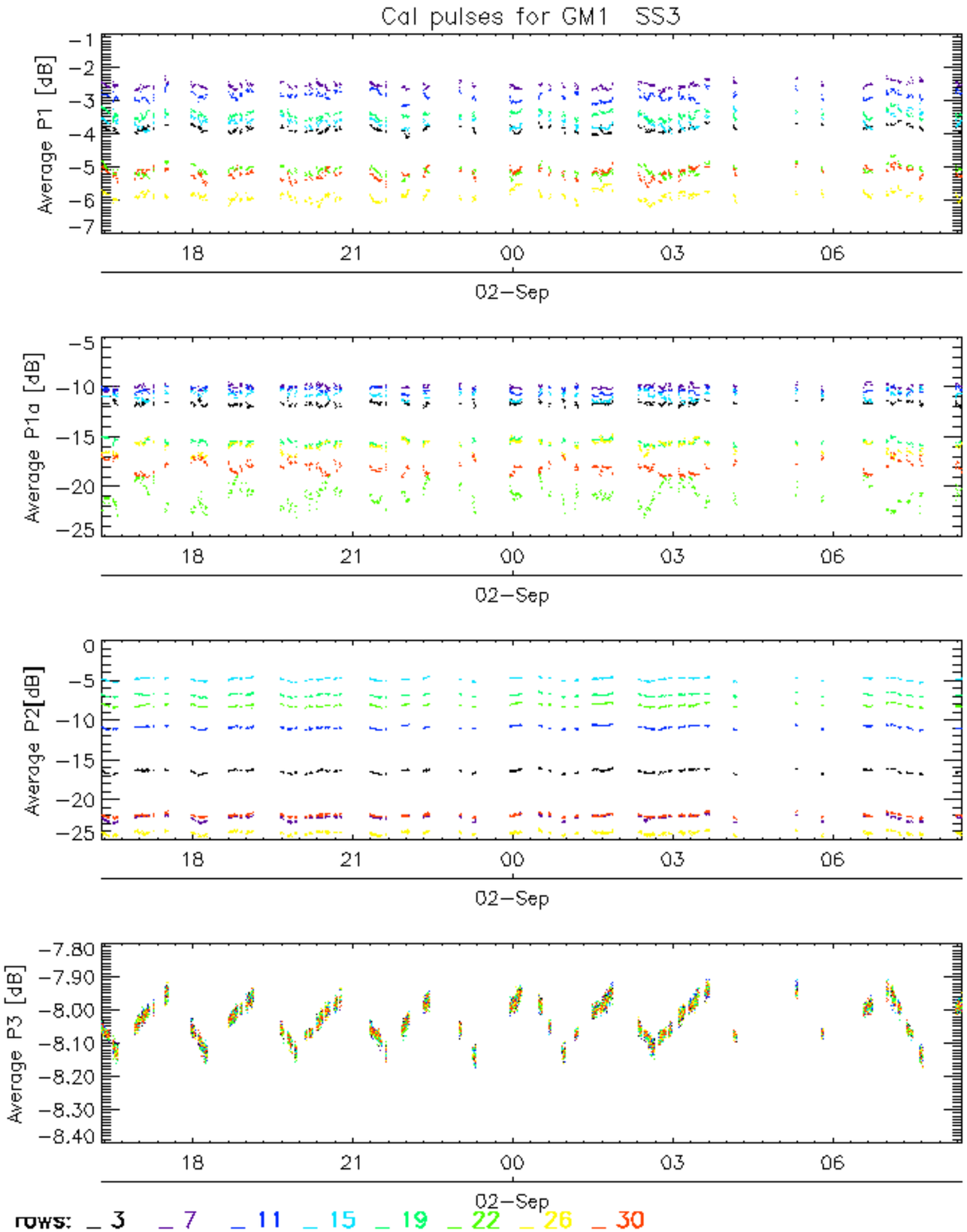

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
02−Sep

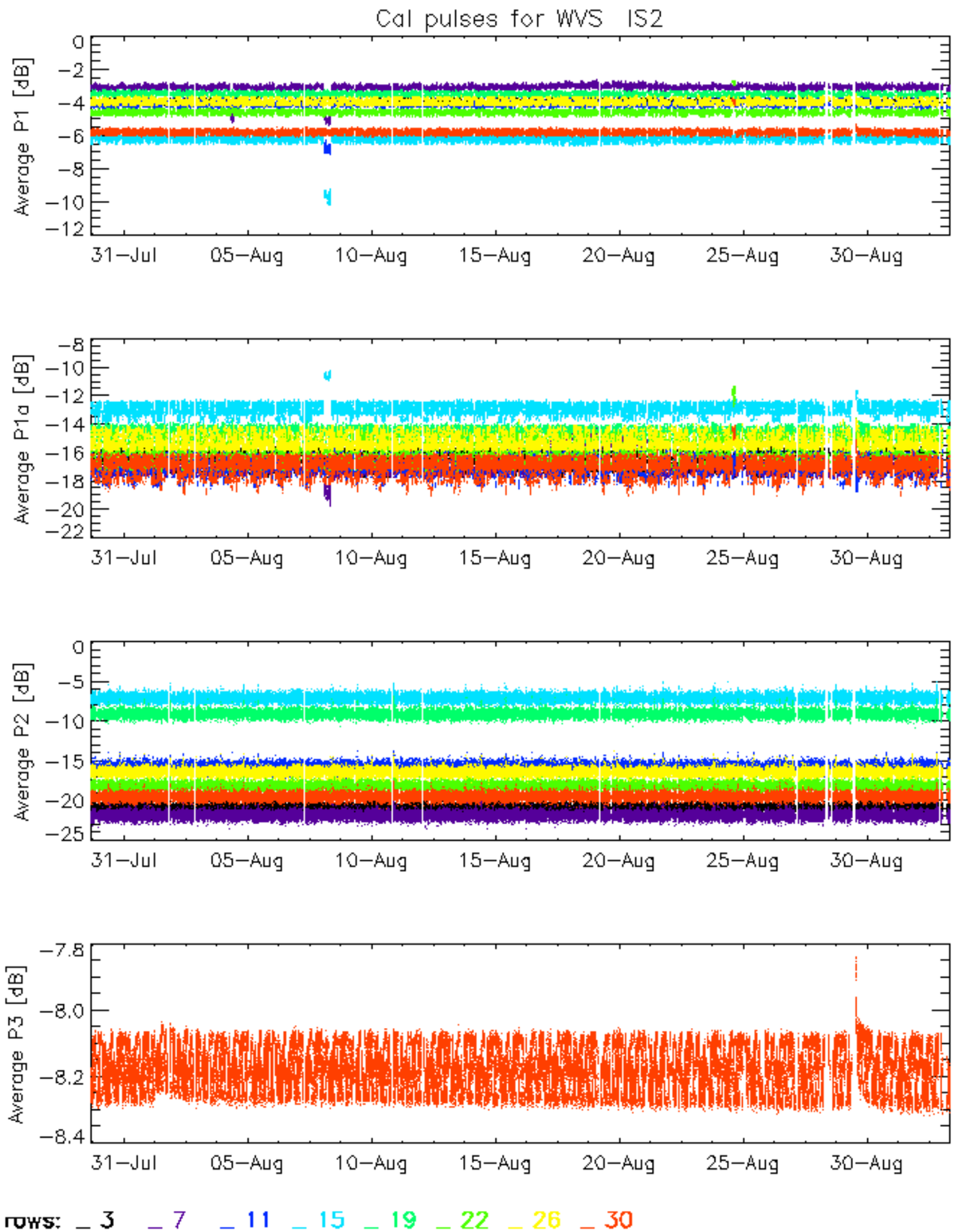

Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
02−Sep
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
02−Sep

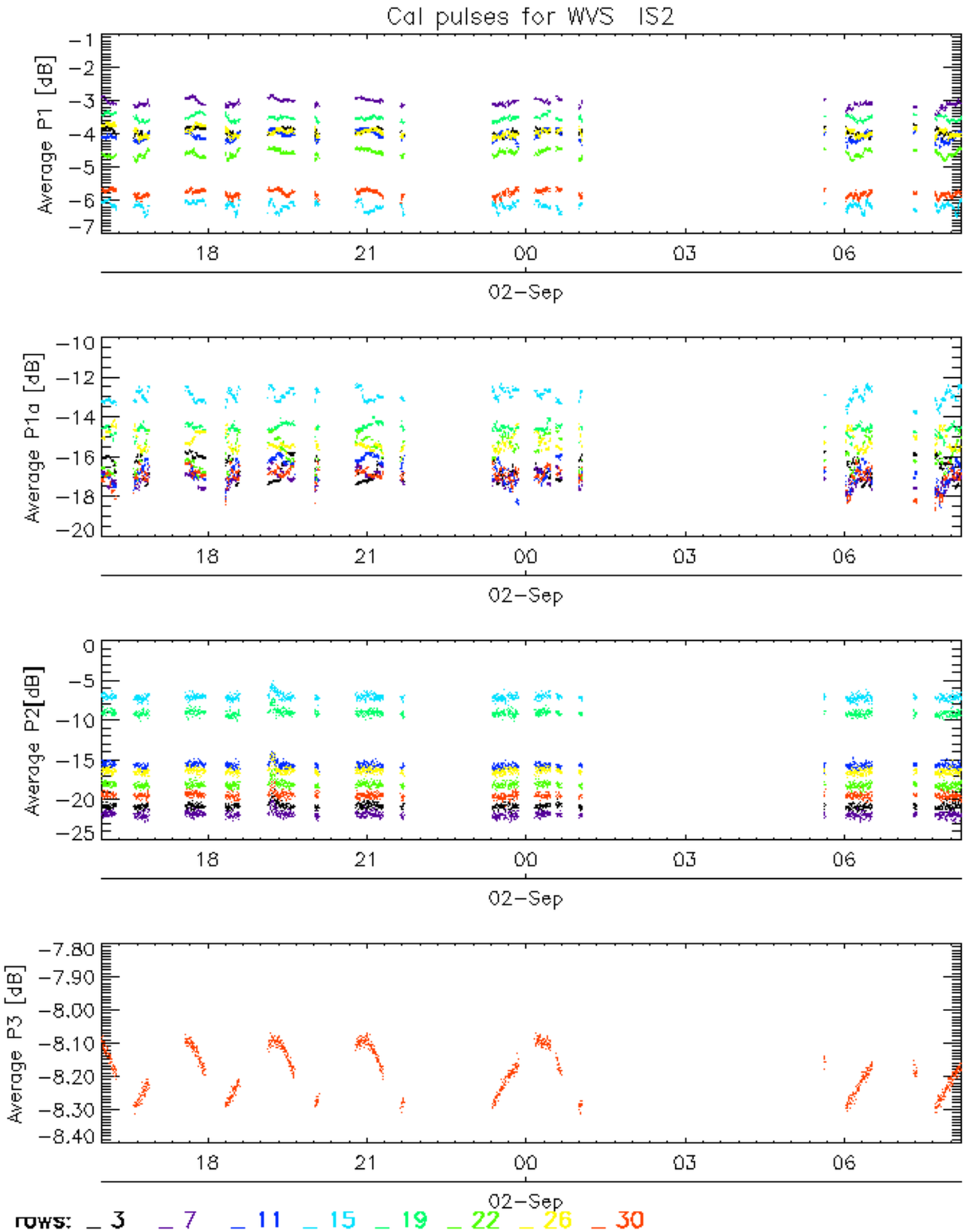

Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
02−Sep
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
02−Sep
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
02−Sep
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
02−Sep
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
02−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

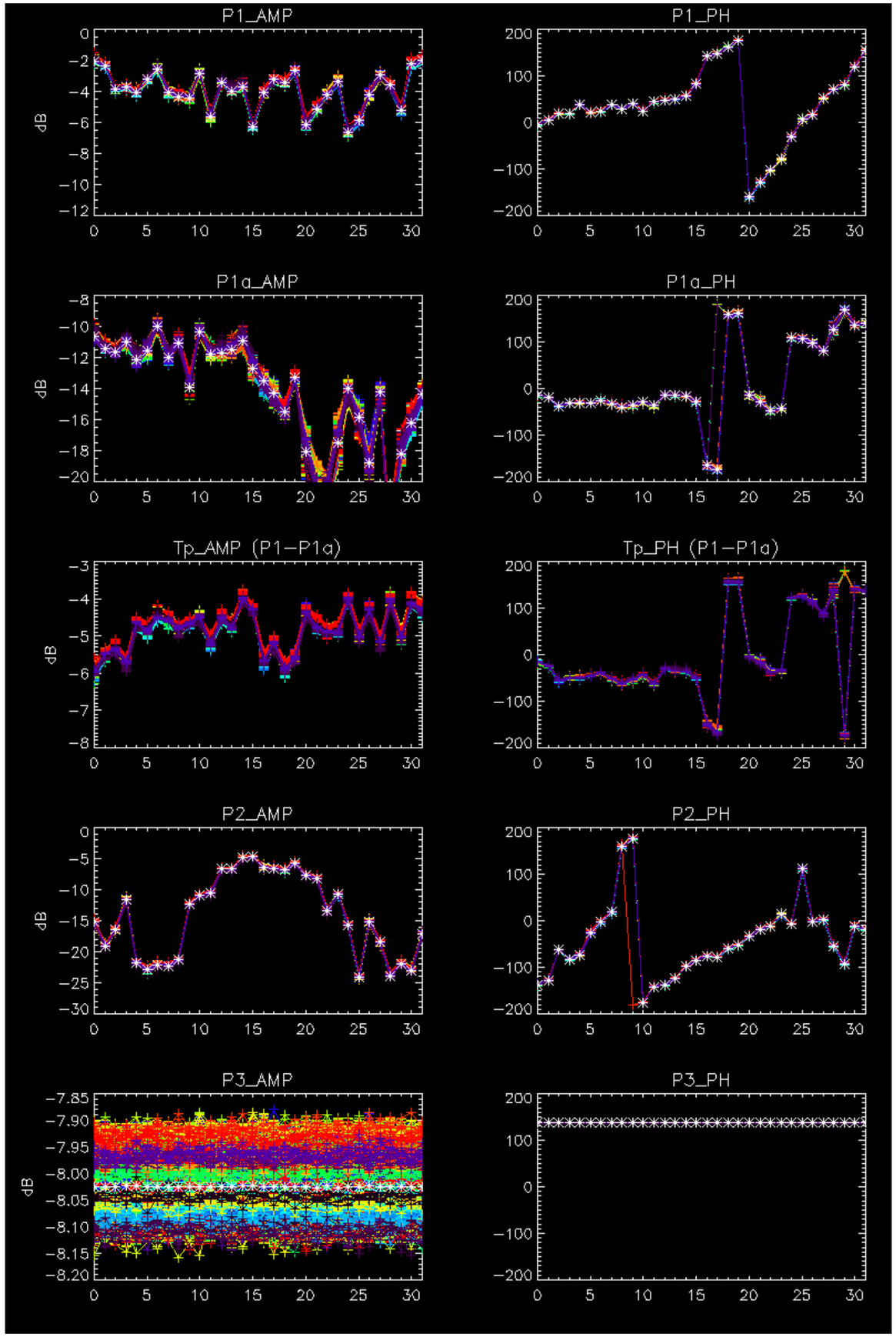

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
−5
−10
−15
−20
−25
−30
−35
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

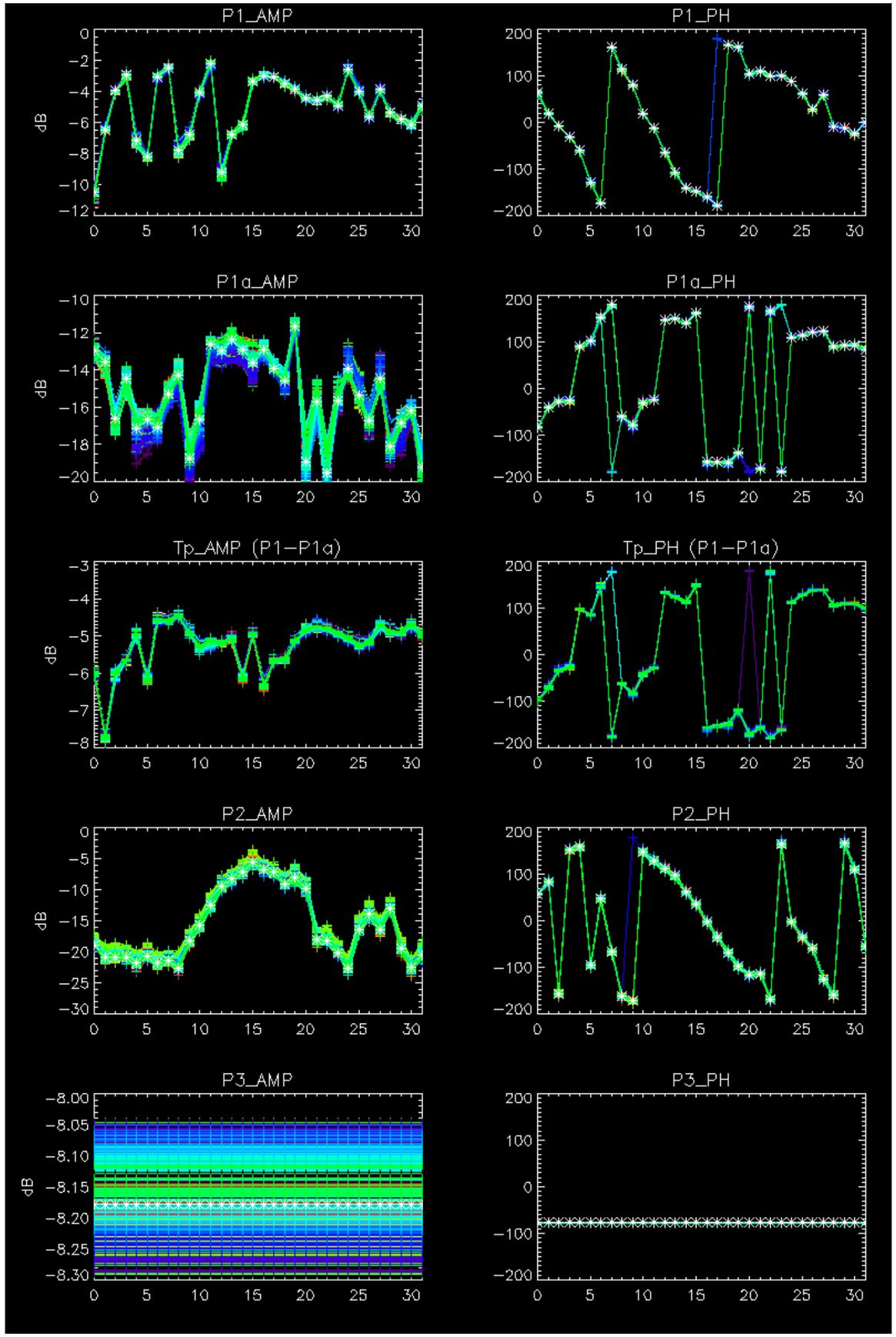

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
02−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
02−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
02−Sep
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
02−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
−22
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
02−Sep
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
02−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
02−Sep
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
02−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

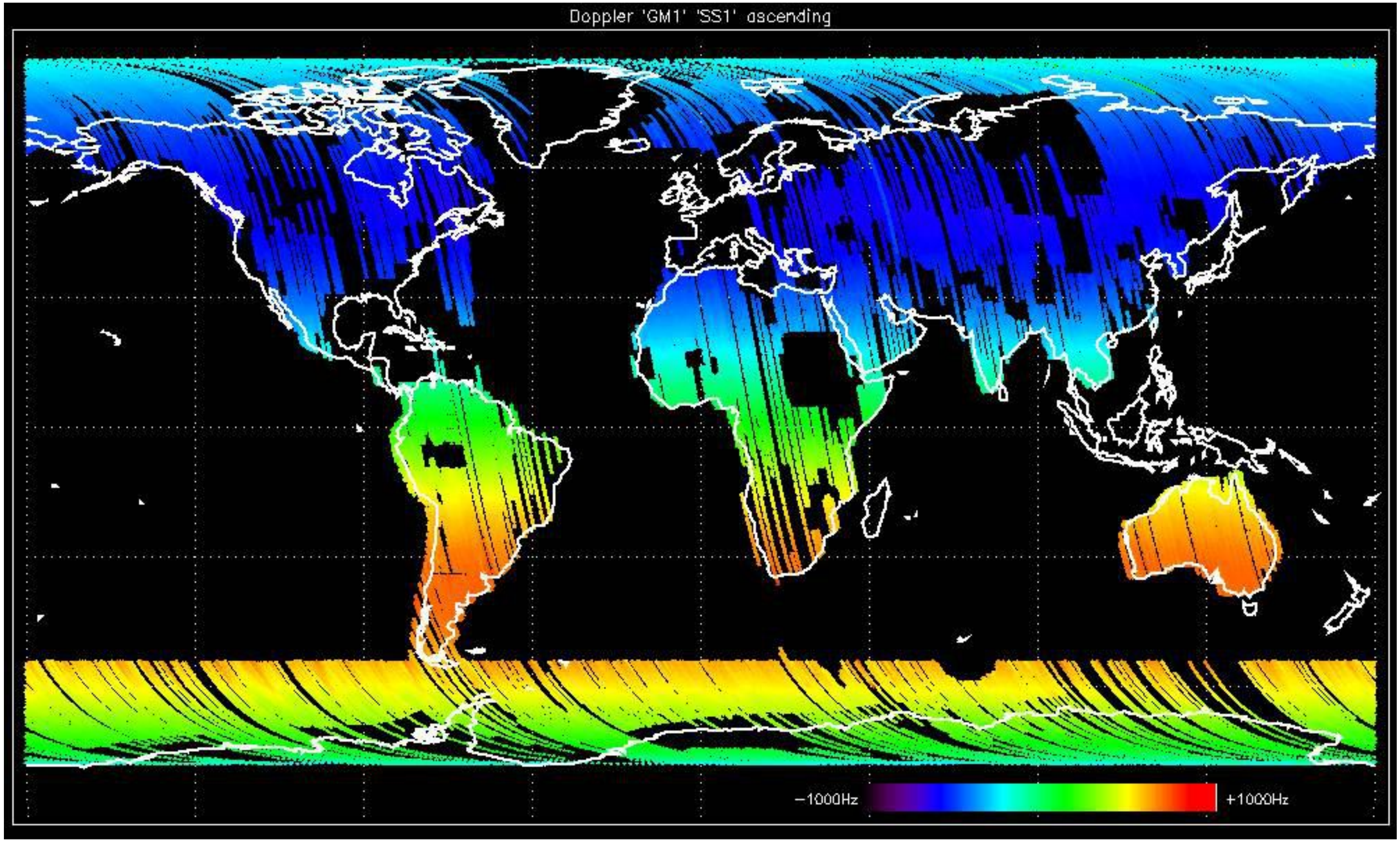
No anomalies observed.

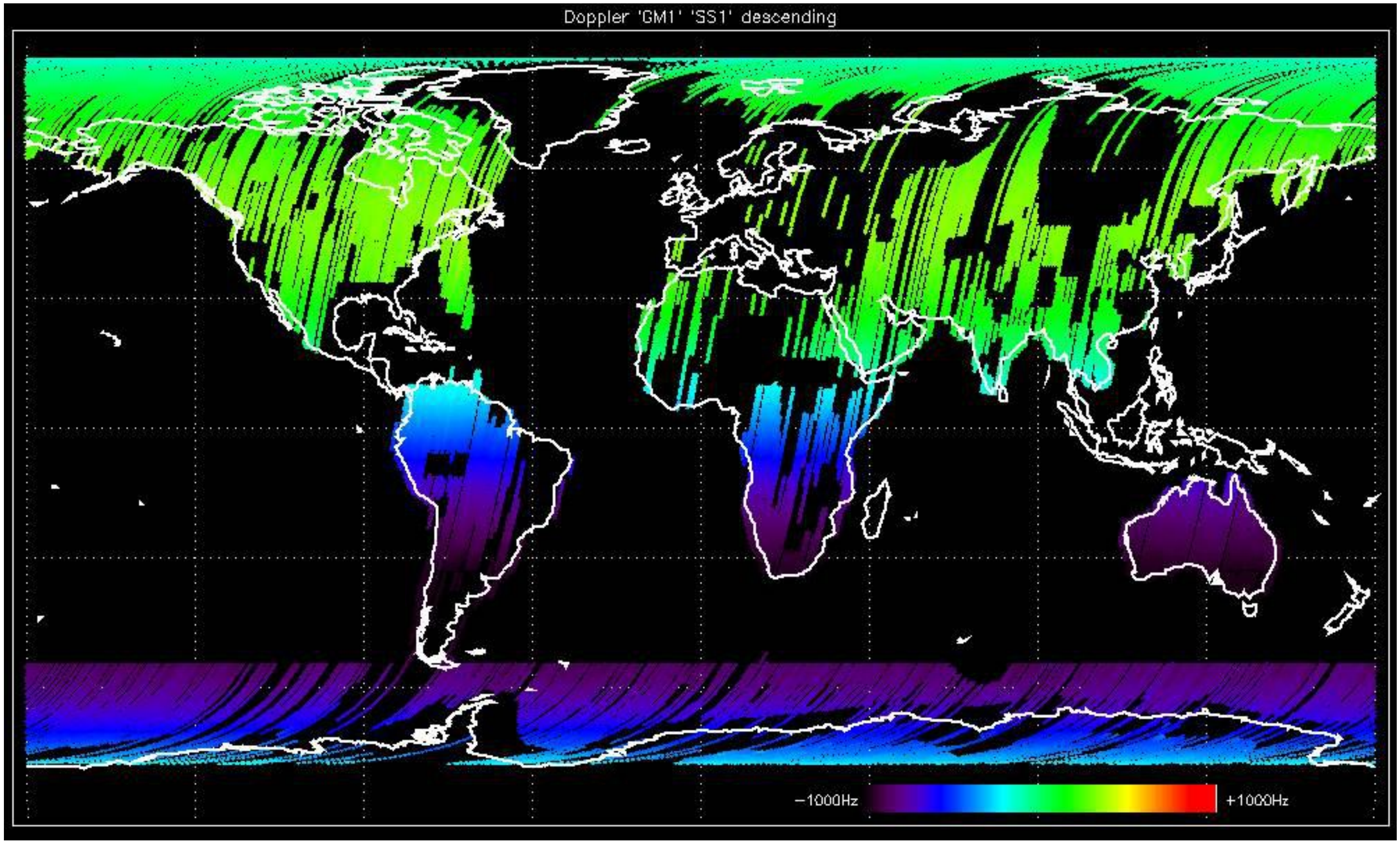

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

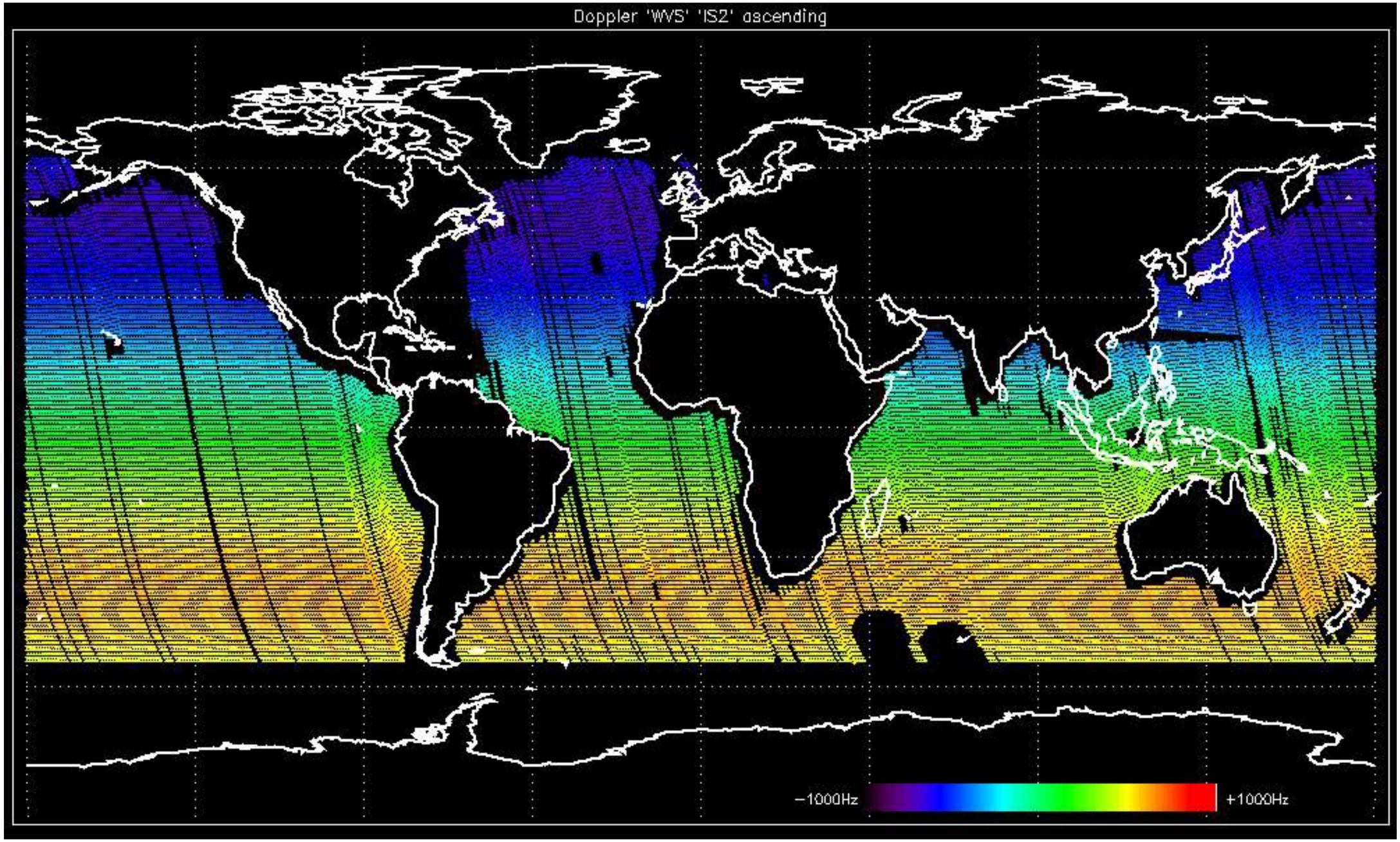

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

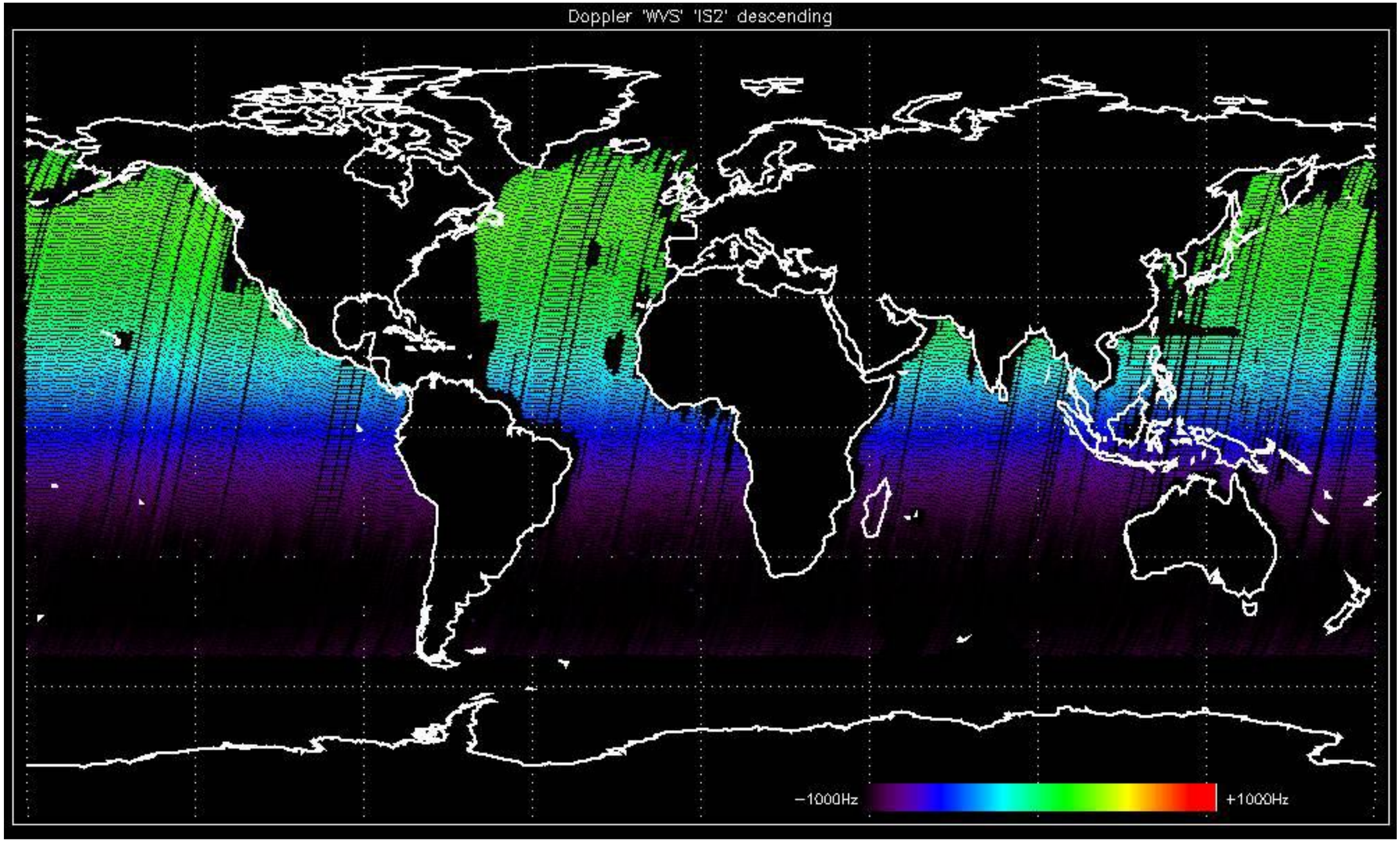
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

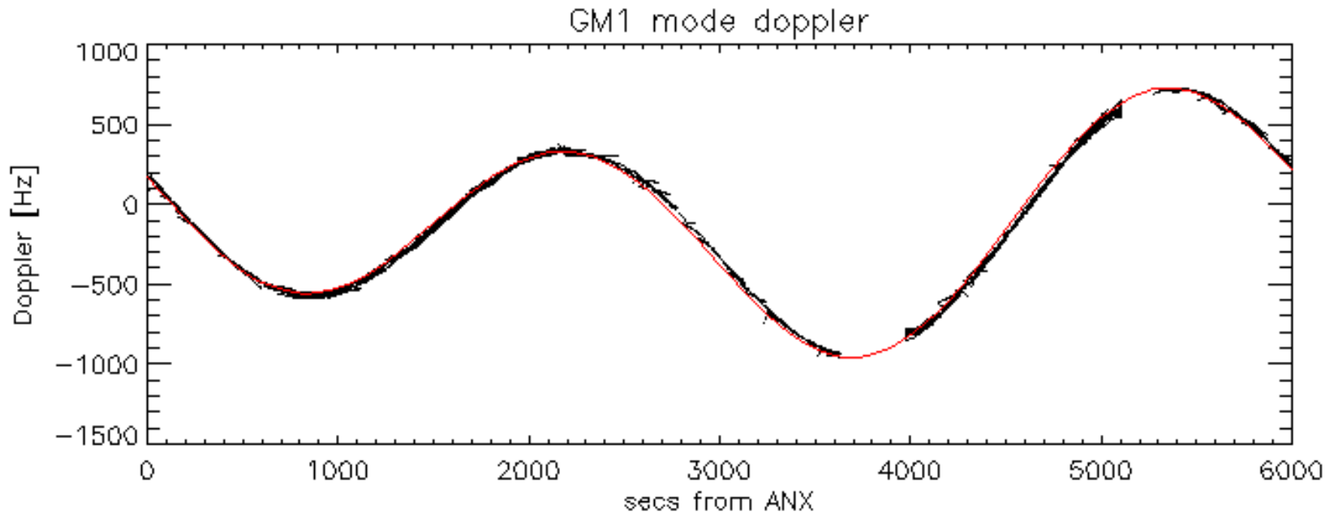
Preliminary report.The data is not yet controled

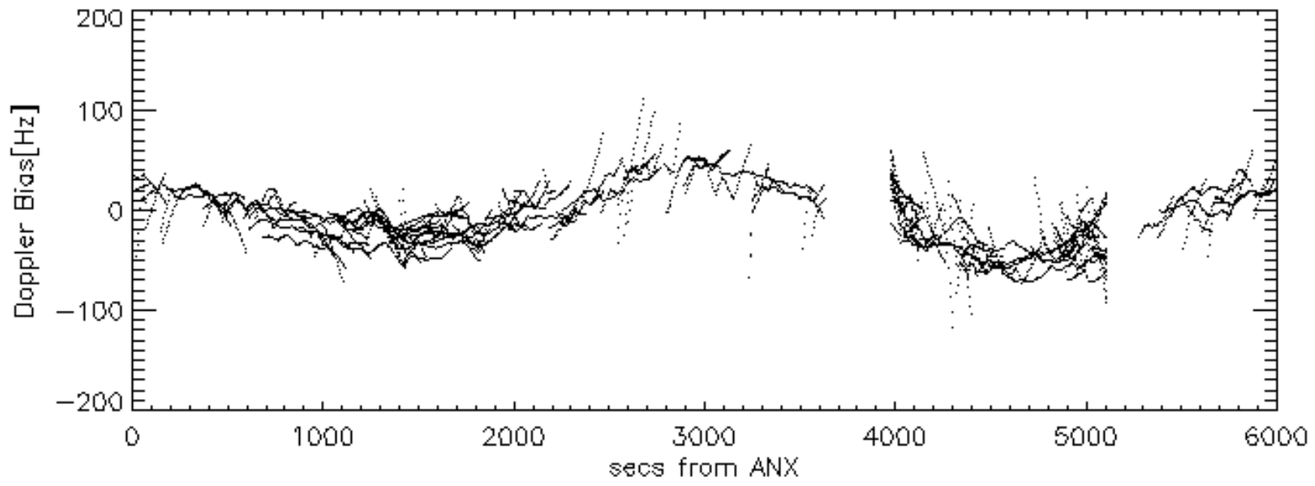

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

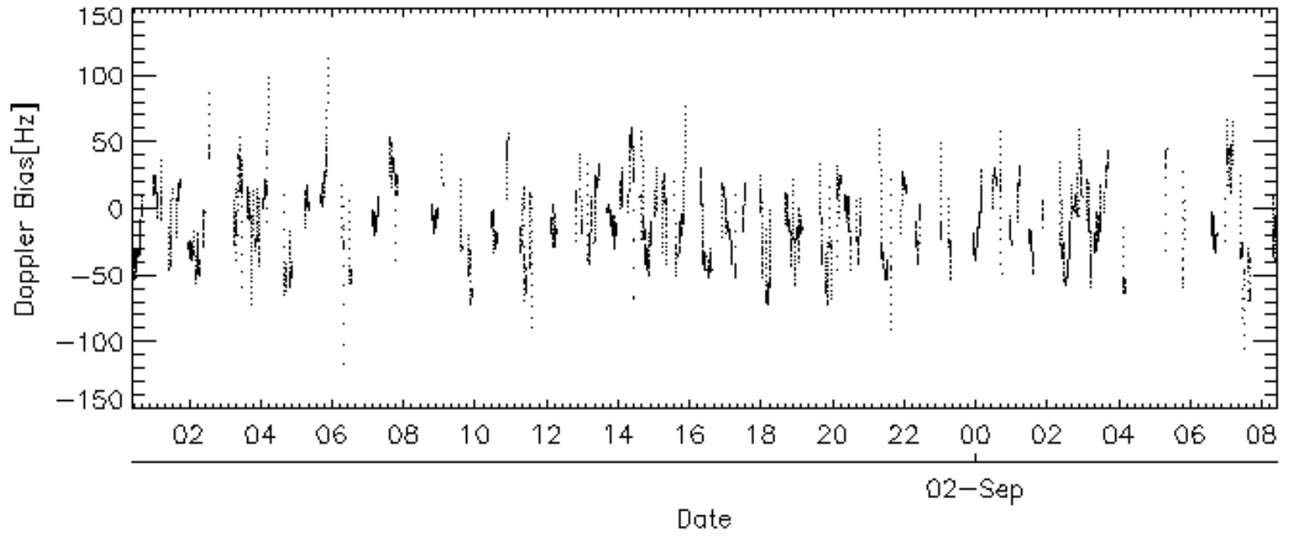

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

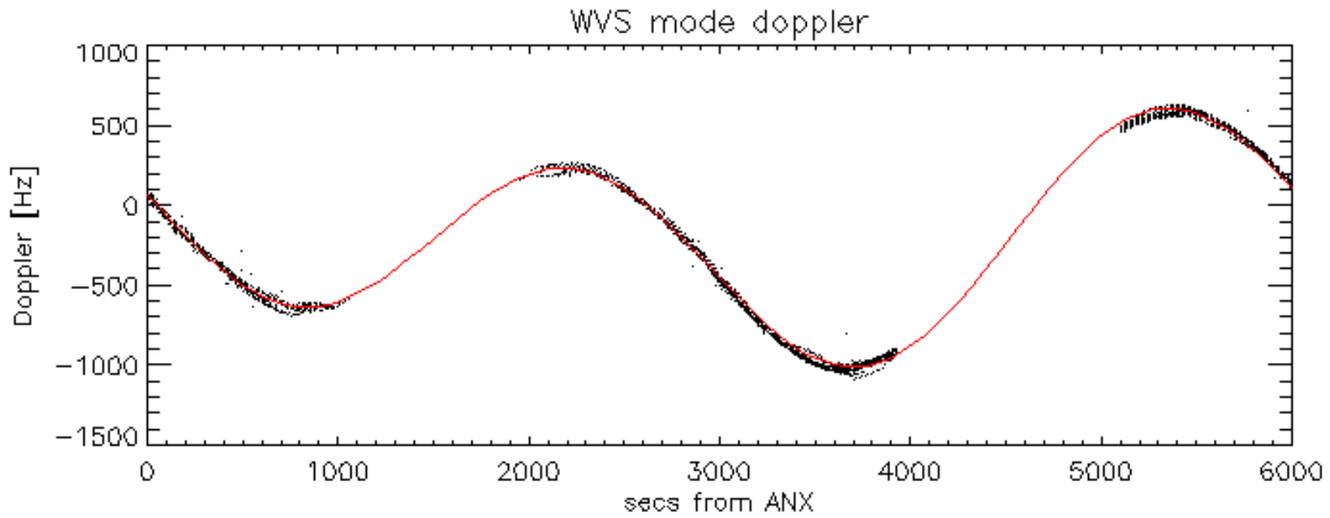

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

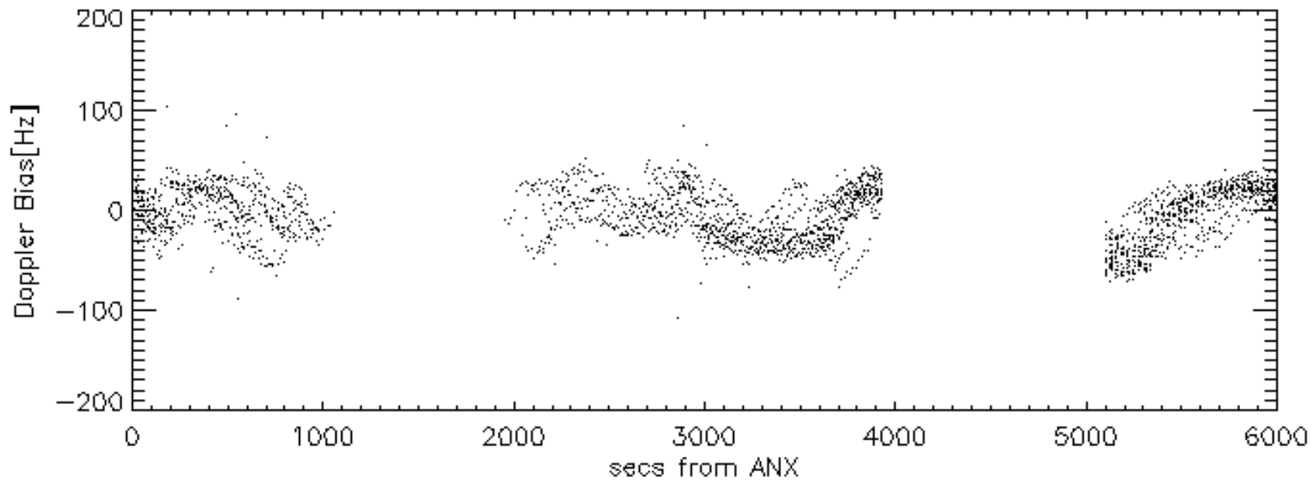

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

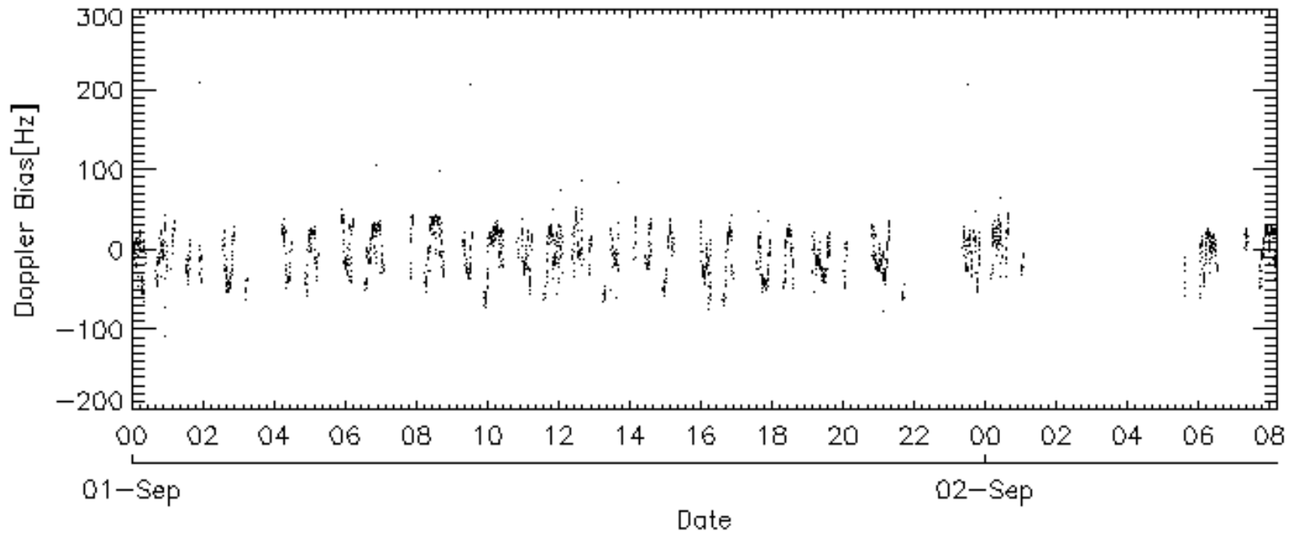

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

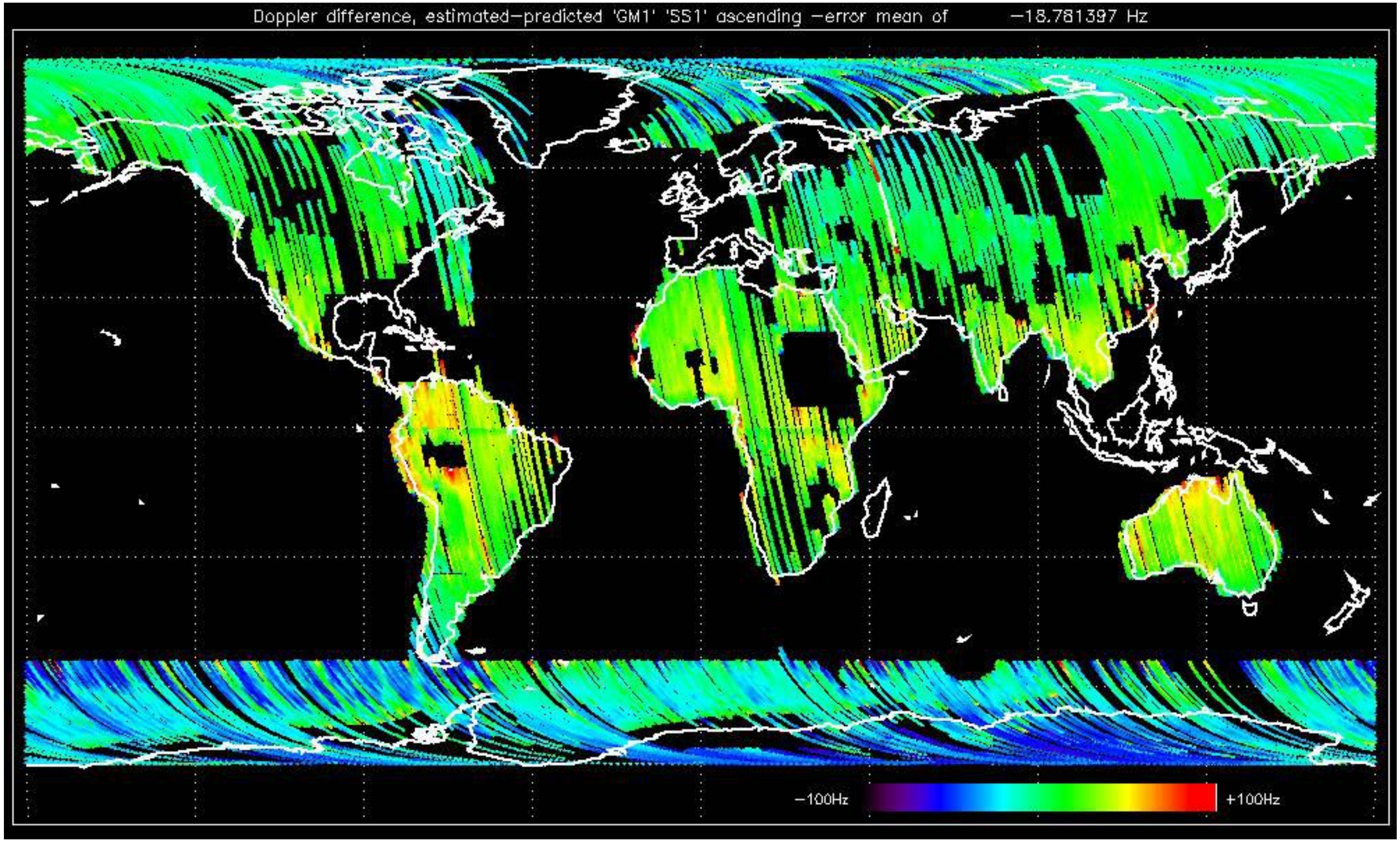

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

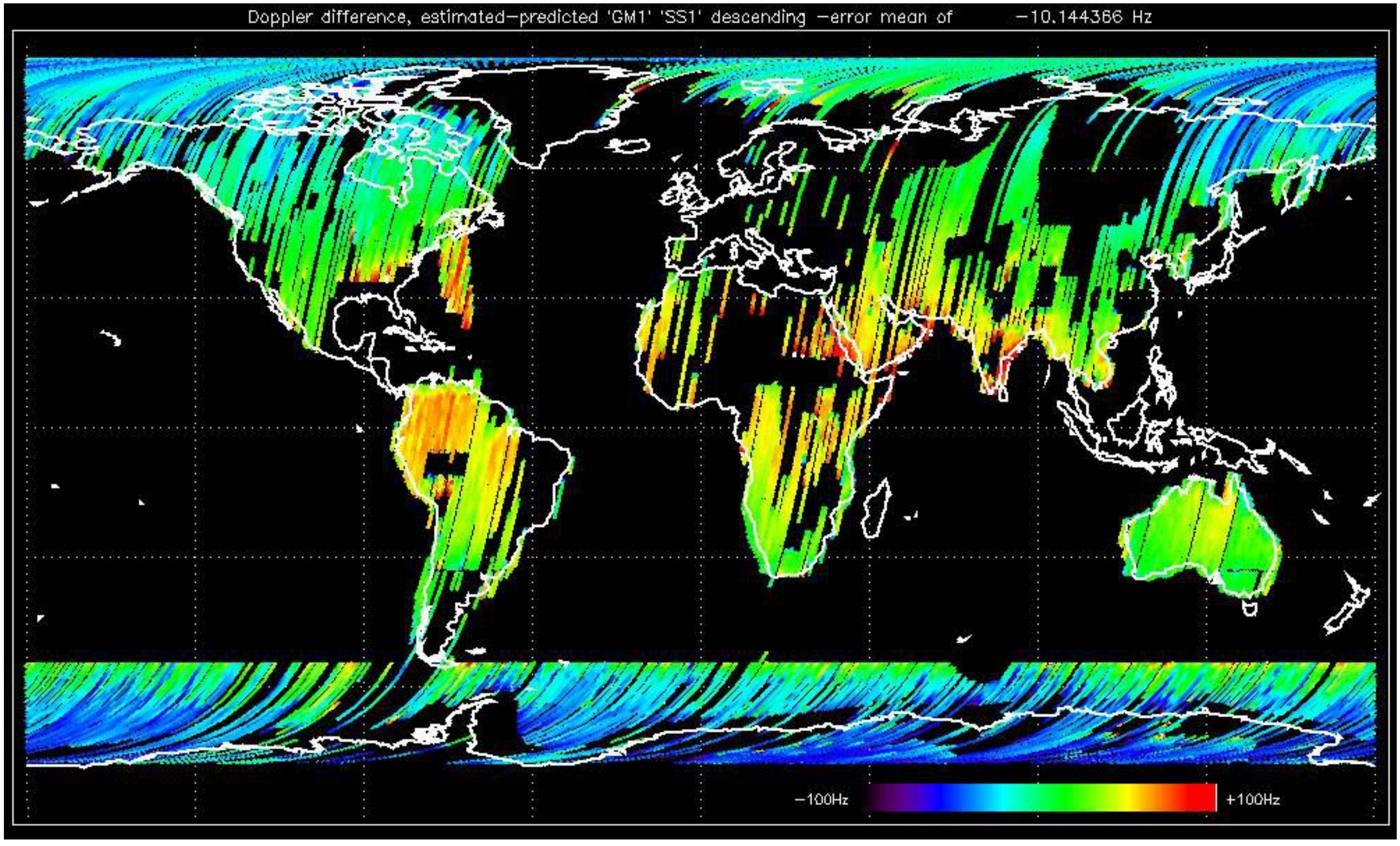

Doppler Bias[Hz]
150
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
02−Sep
Date

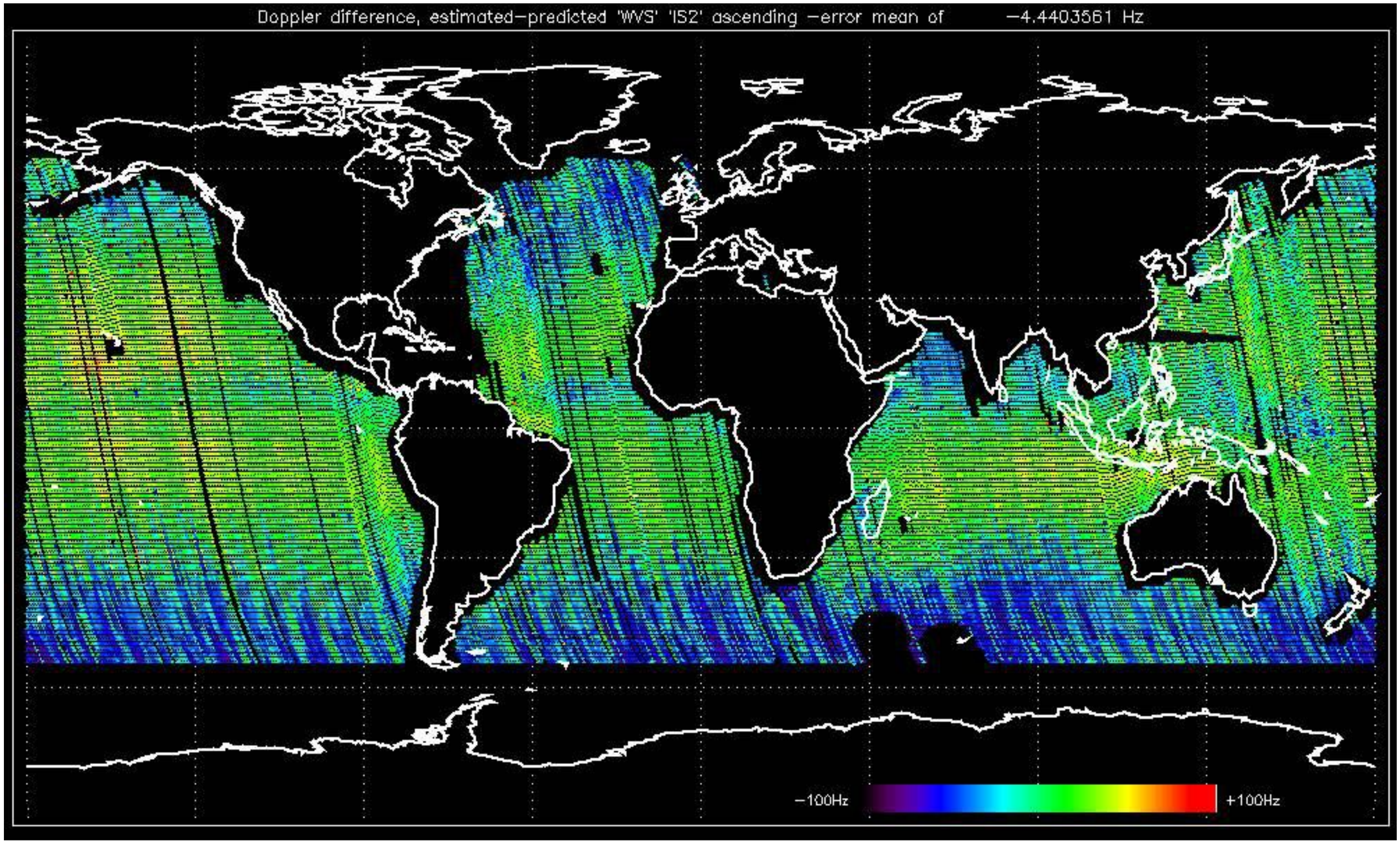

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

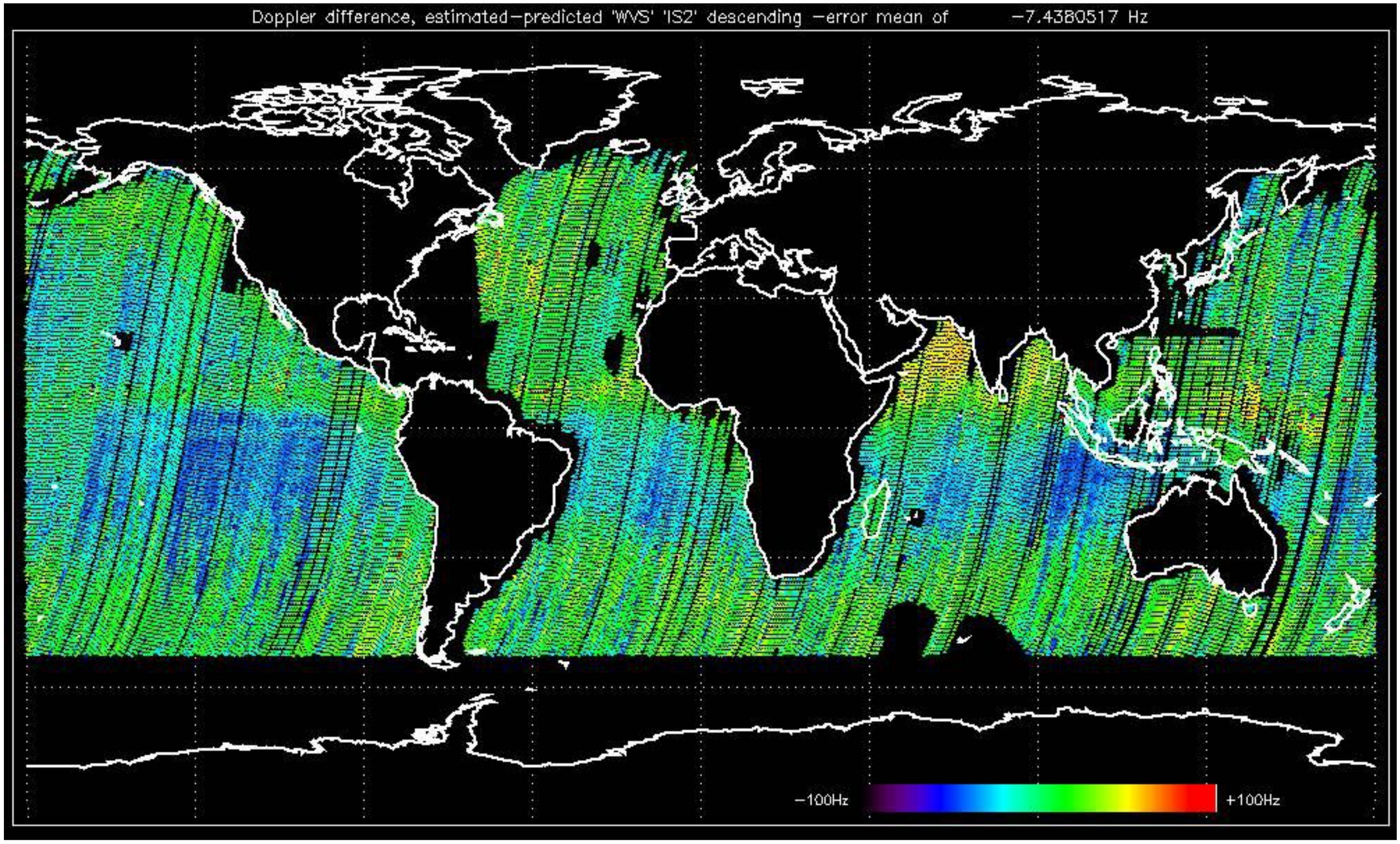

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
300
200
100
0
−100
−200
00
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
01−Sep
02−Sep
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.781397 Hz
−100Hz
+100Hz

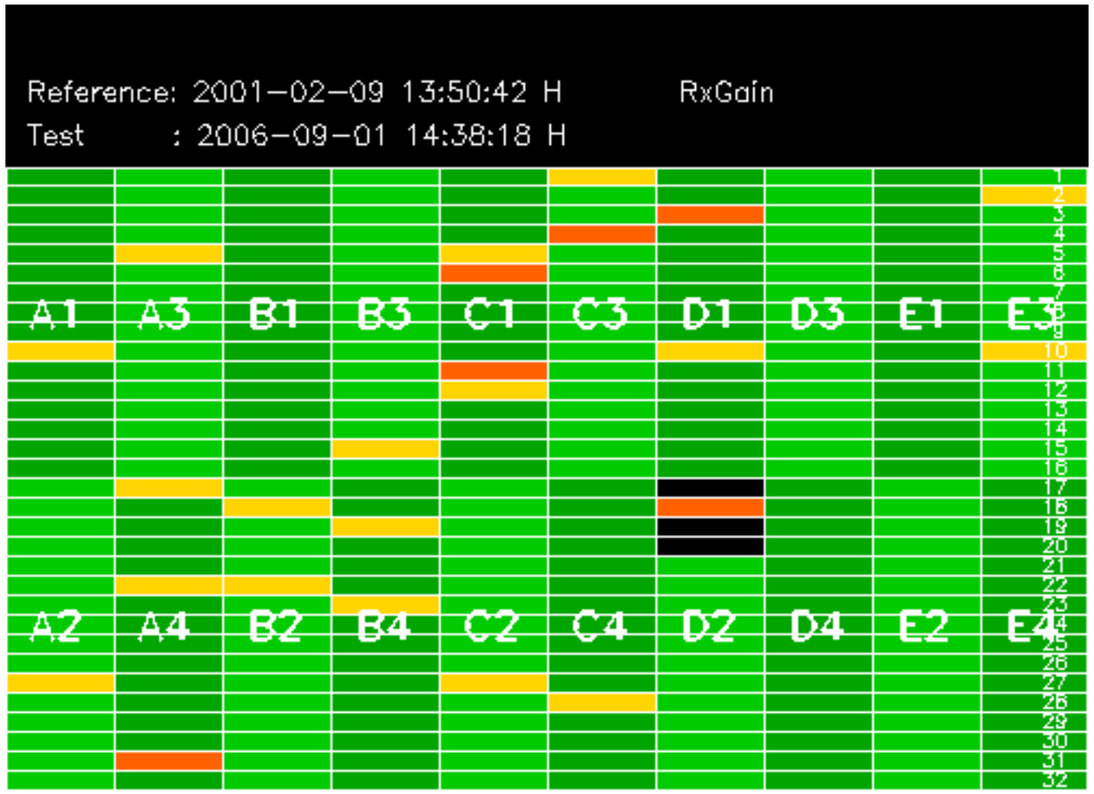

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −10.144366 Hz
−100Hz
+100Hz

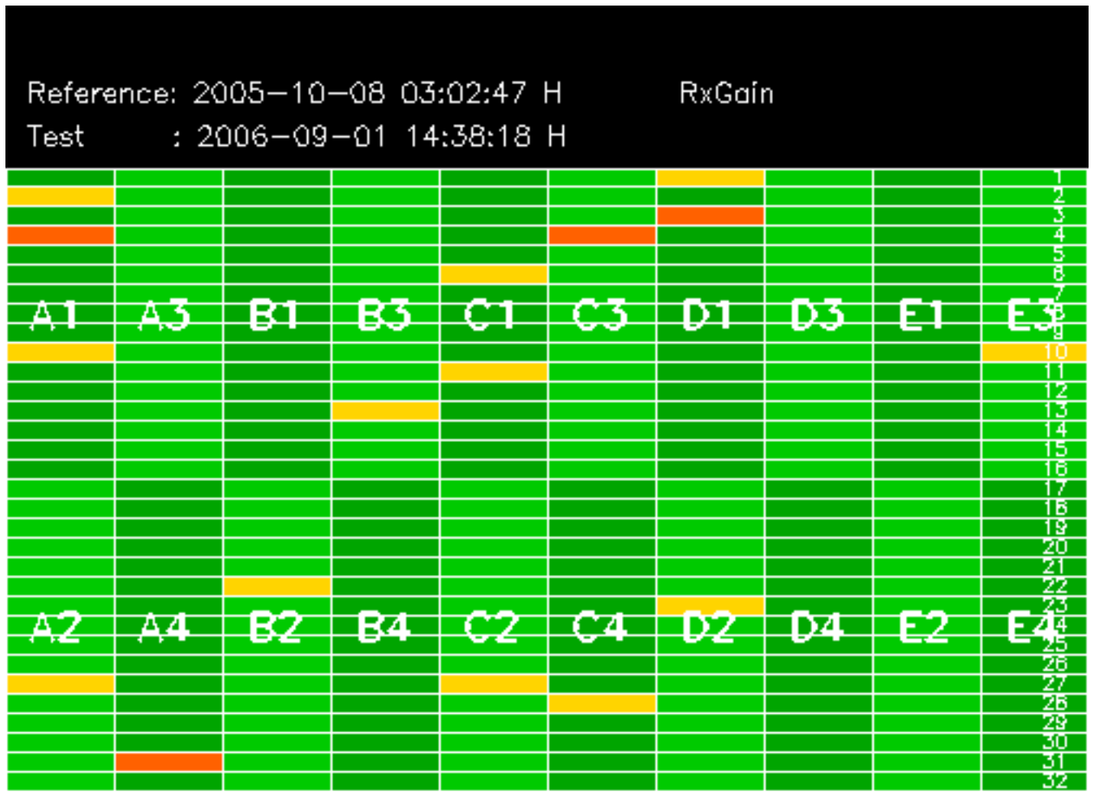

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −4.4403561 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −7.4380517 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2006-09-01 14:38:18 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-09-01 14:38:18 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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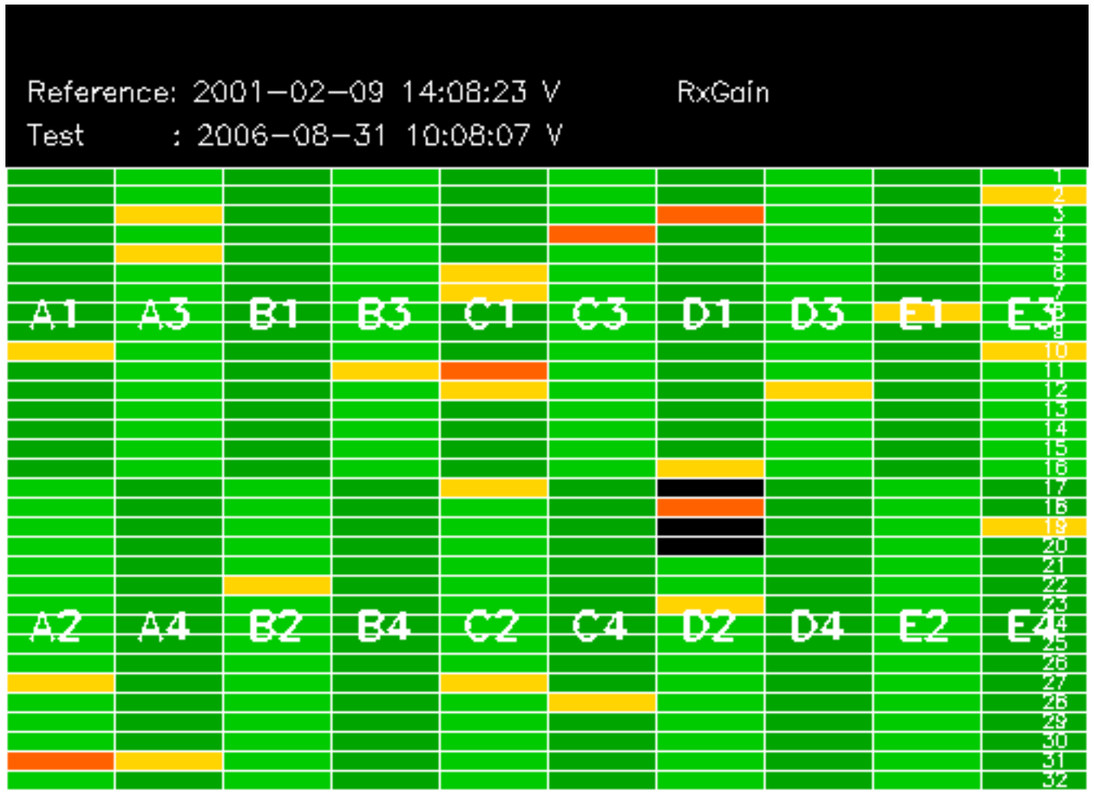
Reference: 2001-02-09 14:08:23 V
Test : 2006-08-31 10:08:07 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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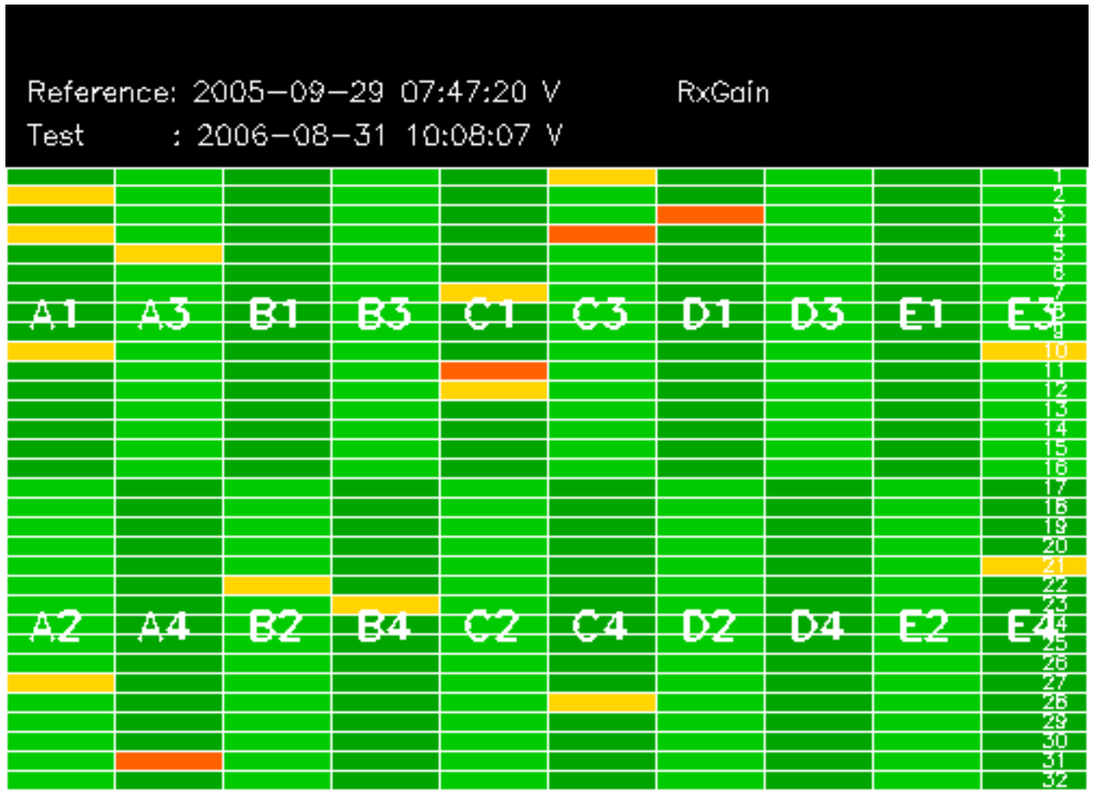
Reference: 2005-09-29 07:47:20 V
Test : 2006-08-31 10:08:07 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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3
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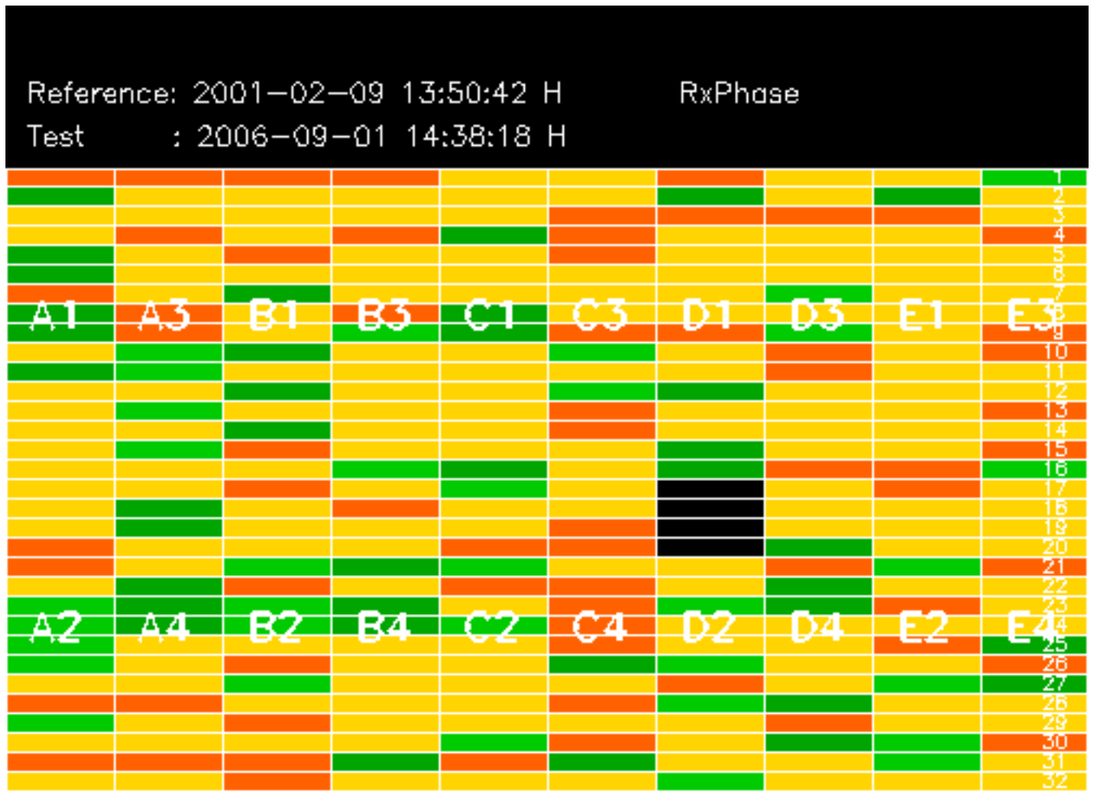
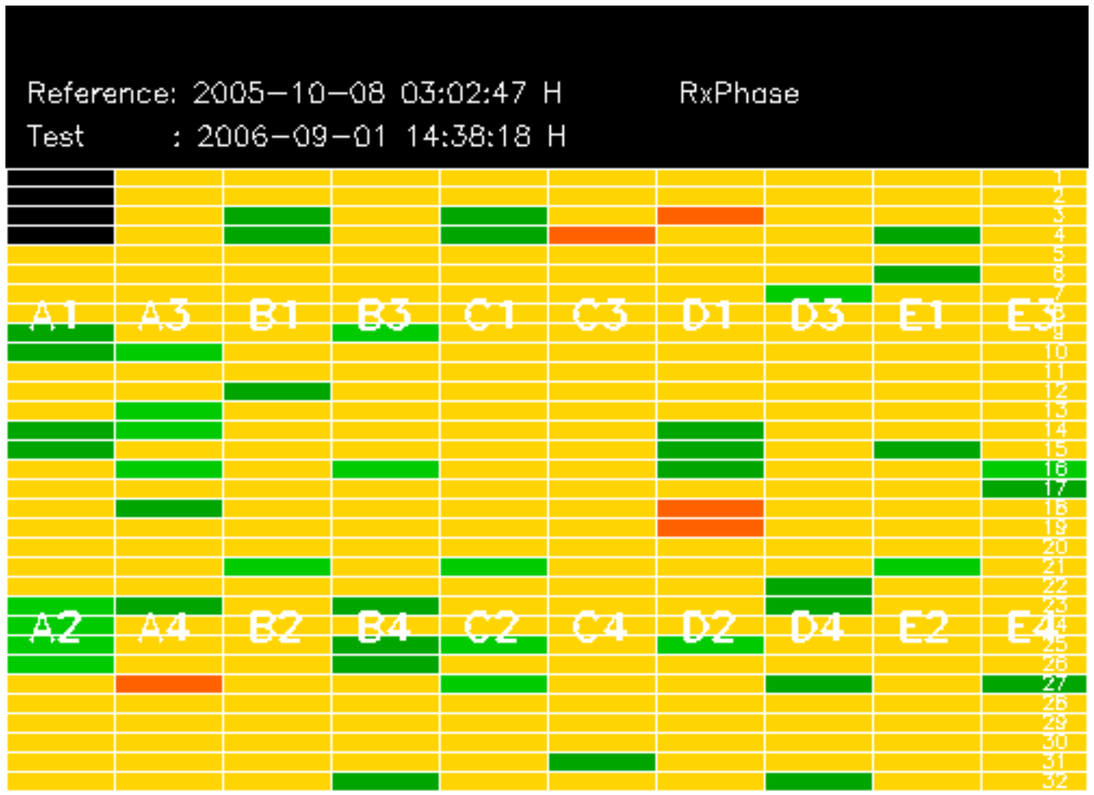
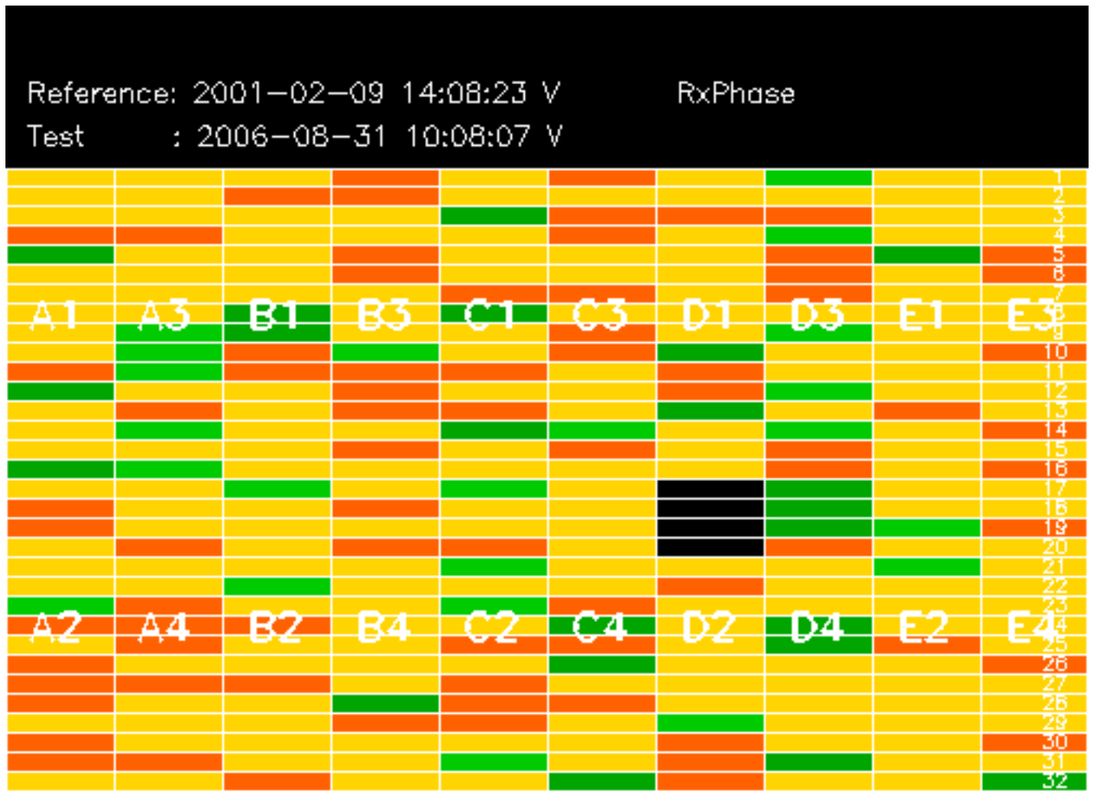
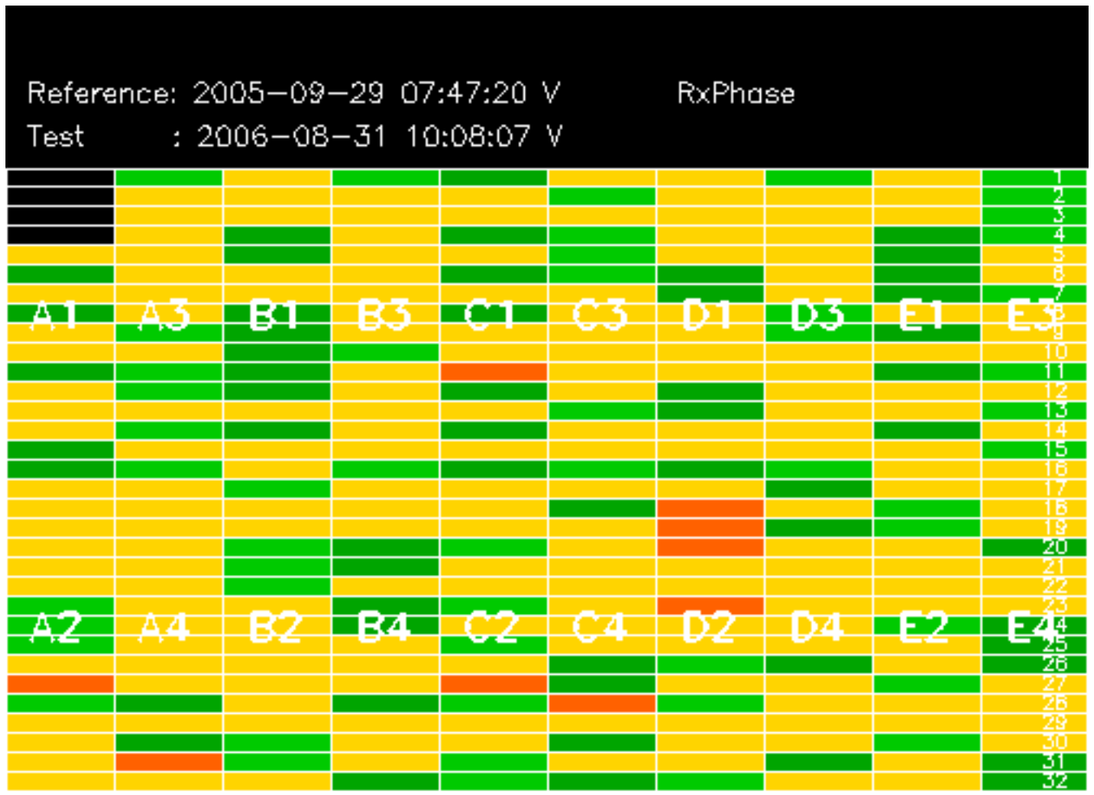

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-09-01 14:38:18 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-09-01 14:38:18 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2006-08-31 10:08:07 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-08-31 10:08:07 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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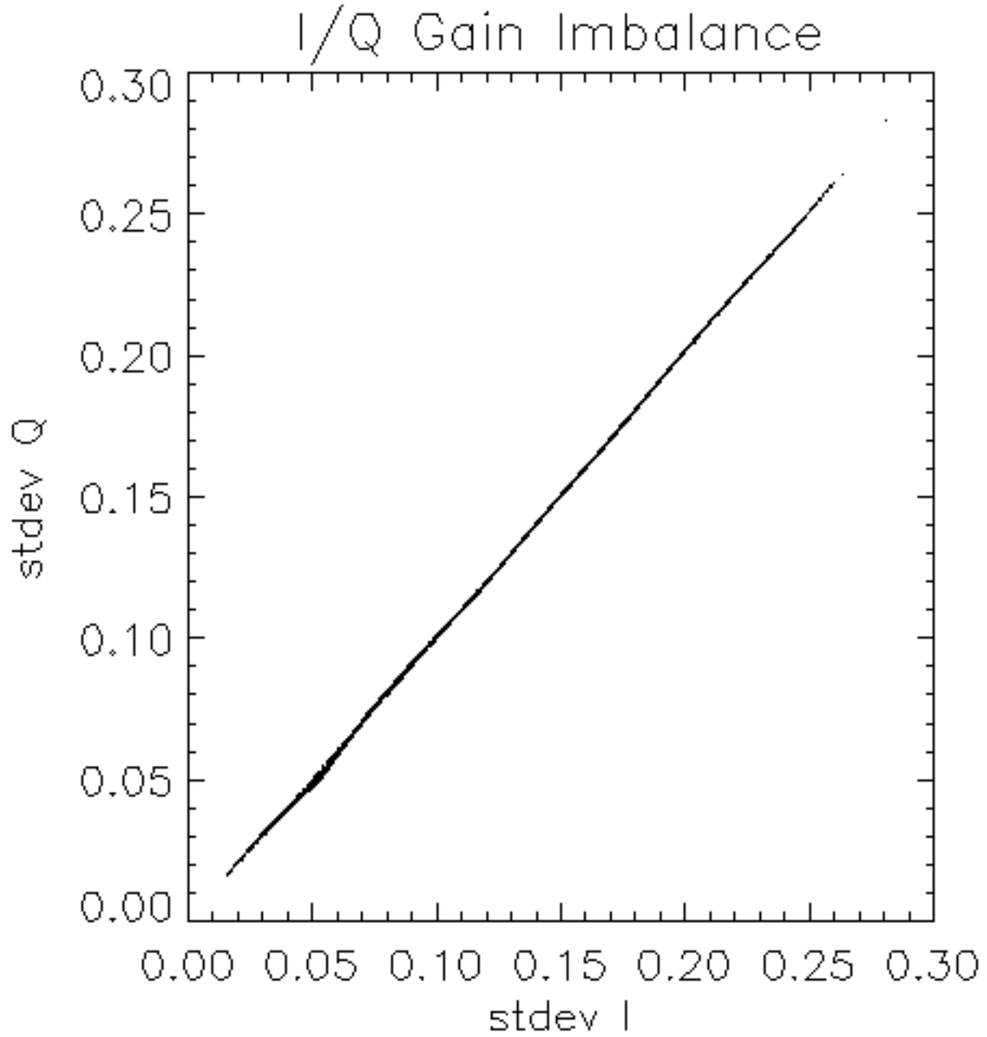
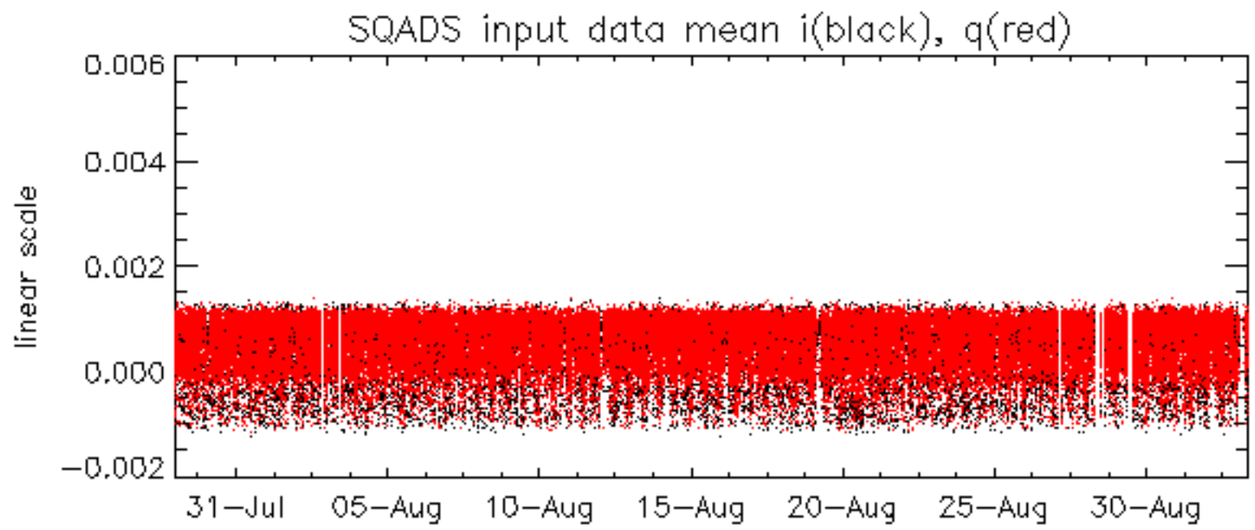
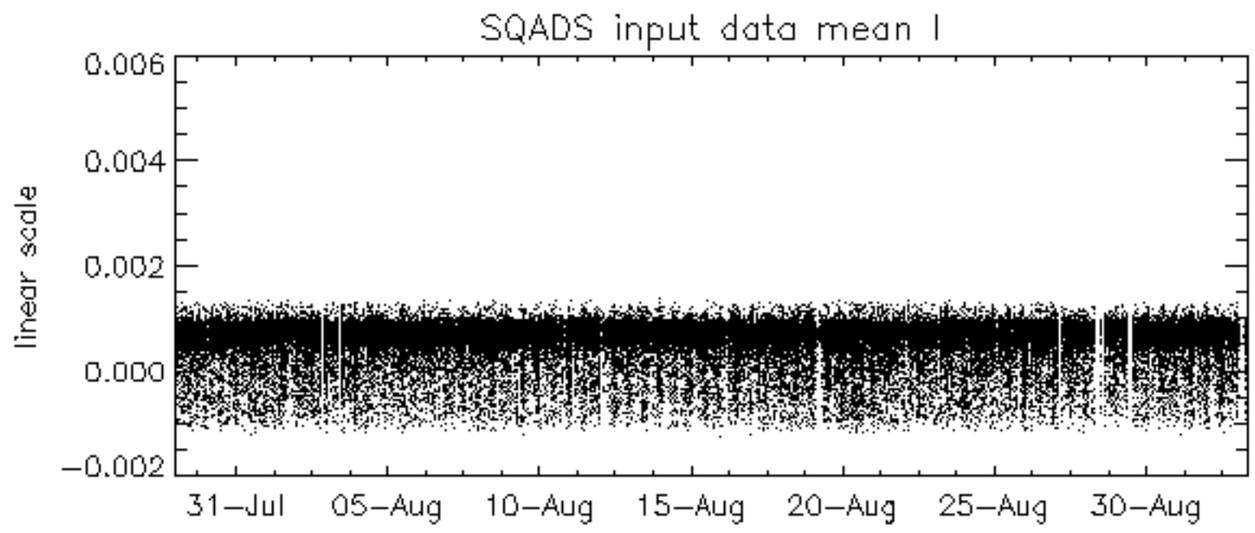
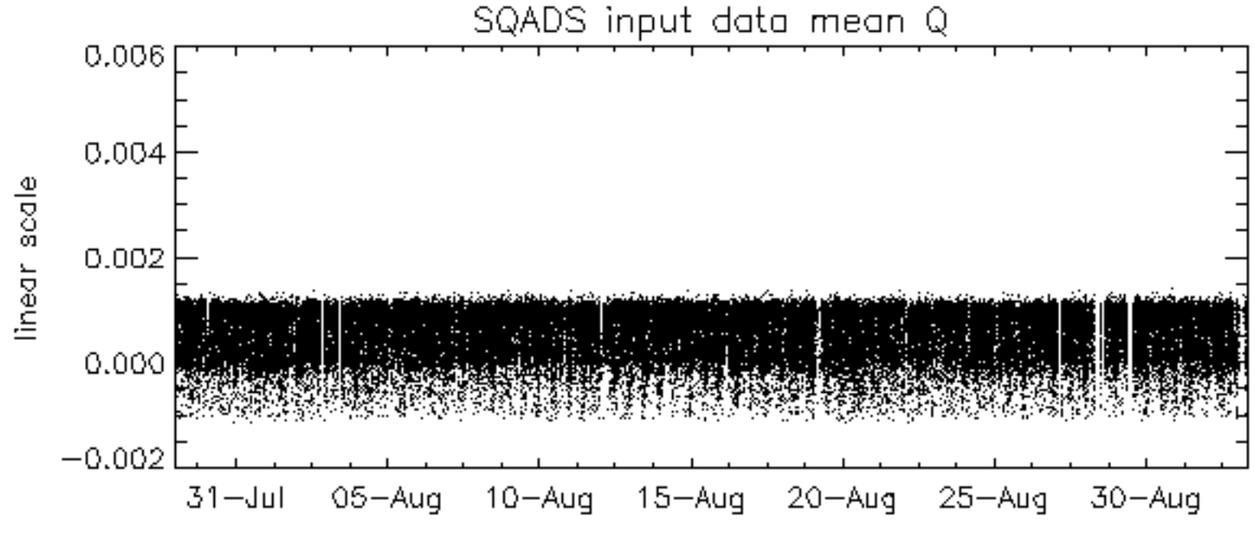
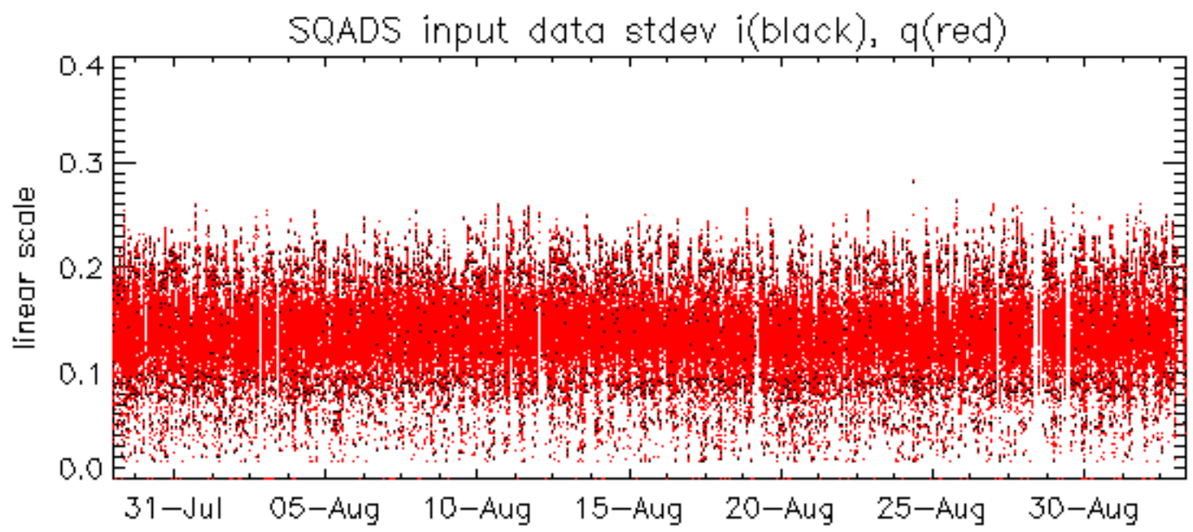
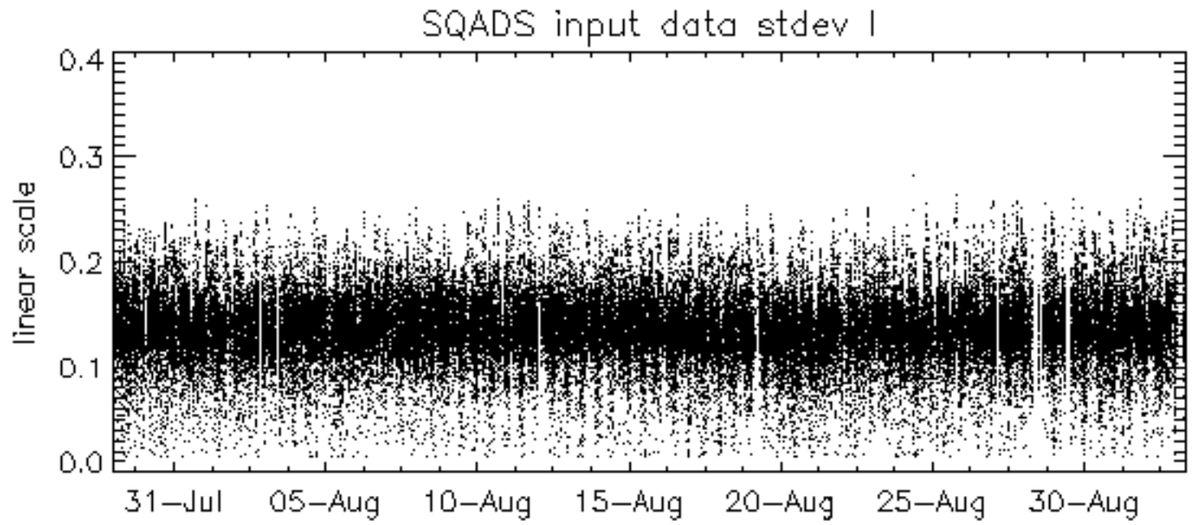

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

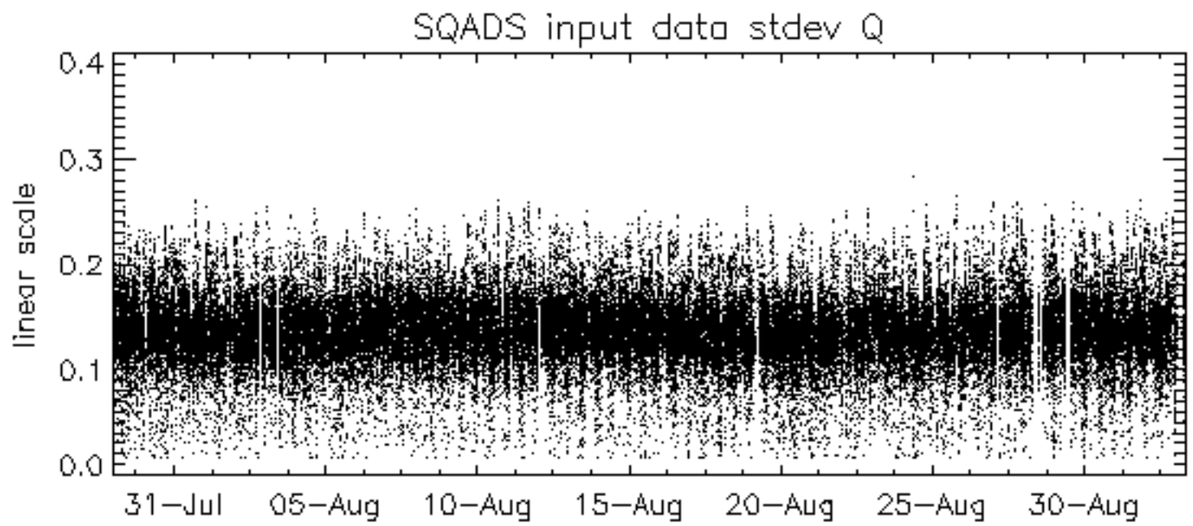

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug

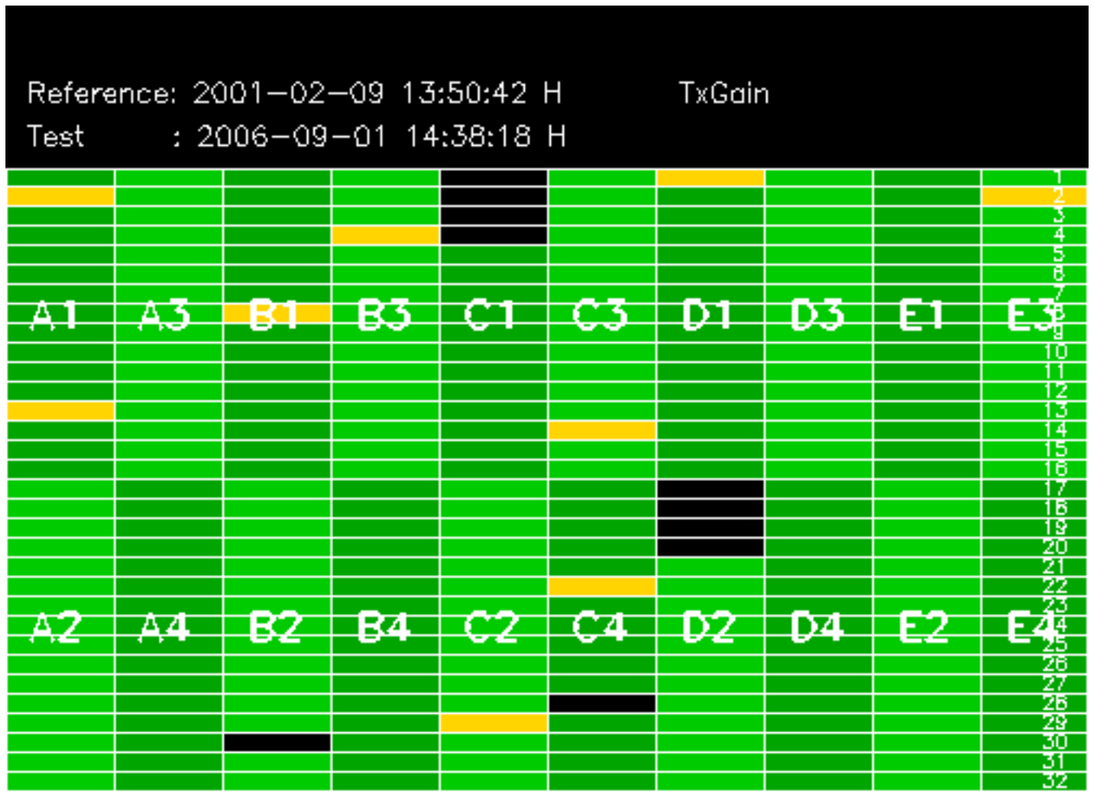

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
31–Jul
05–Aug
10–Aug
15–Aug
20–Aug
25–Aug
30–Aug


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
31–Jul
05–Aug
10–Aug
15–Aug
20–Aug
25–Aug
30–Aug


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
31–Jul
05–Aug
10–Aug
15–Aug
20–Aug
25–Aug
30–Aug


Reference: 2001-02-09 13:50:42 H
Test : 2006-09-01 14:38:18 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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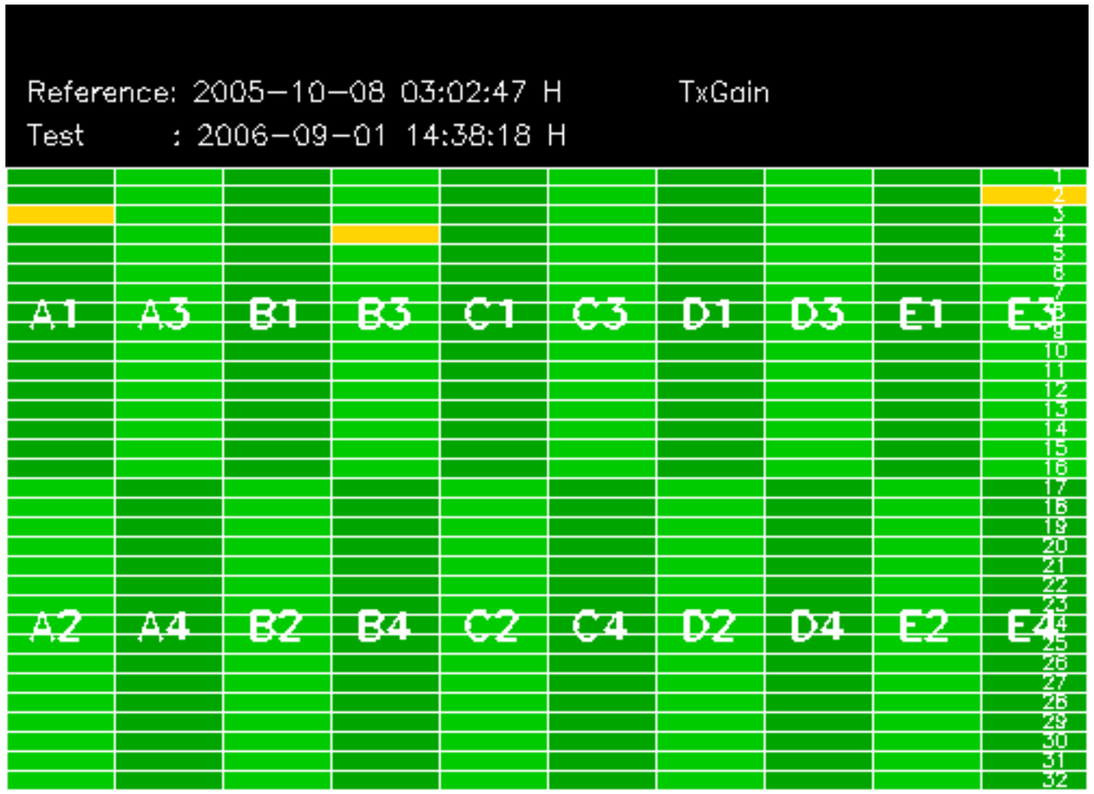
Reference: 2005-10-08 03:02:47 H
Test : 2006-09-01 14:38:18 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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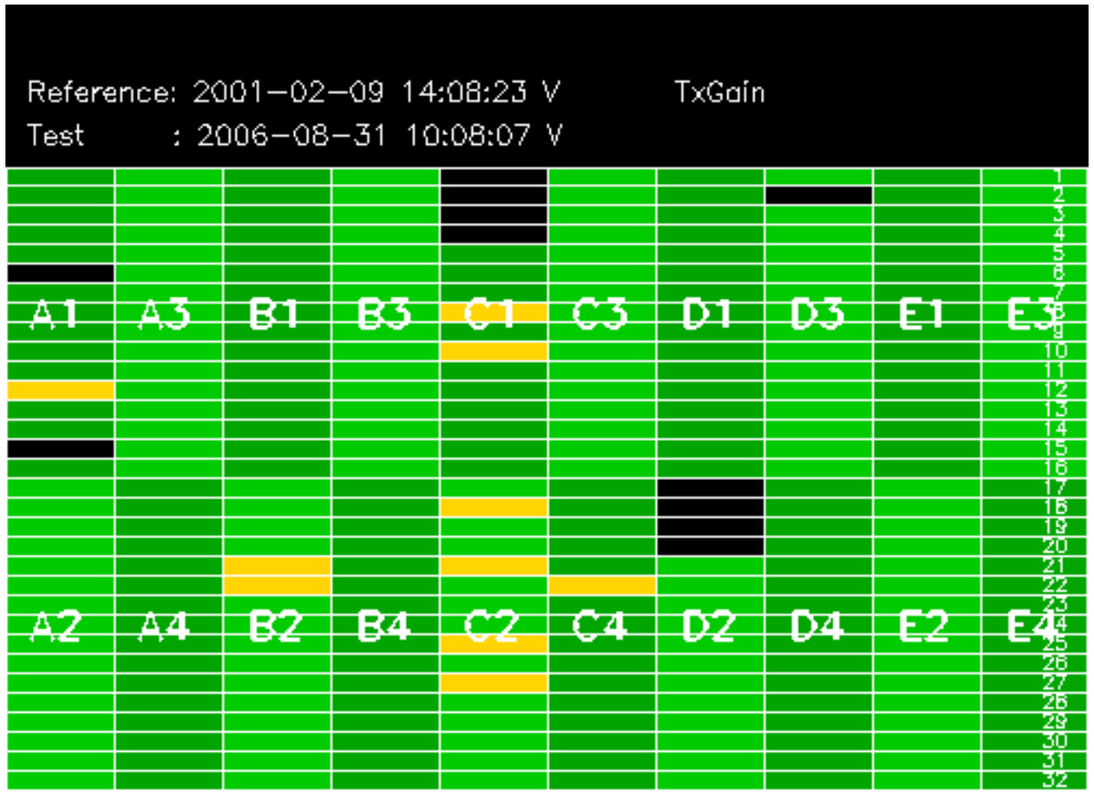
Reference: 2001-02-09 14:08:23 V
Test : 2006-08-31 10:08:07 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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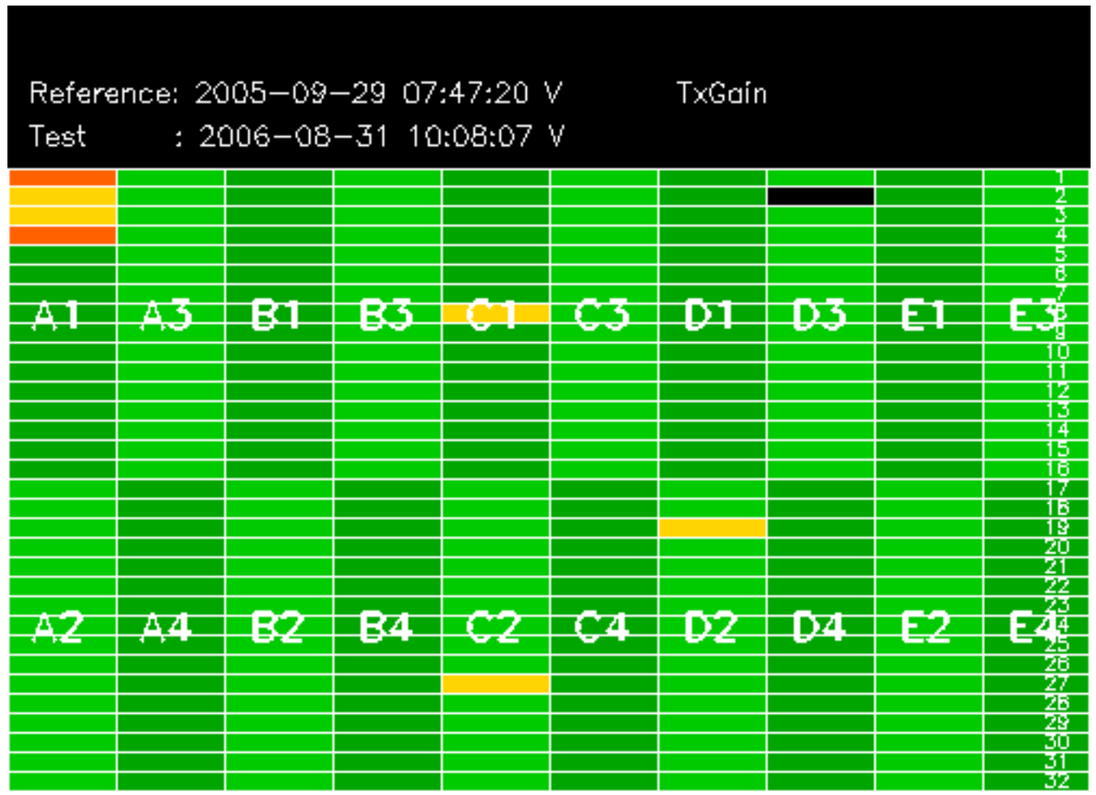
Reference: 2005-09-29 07:47:20 V
Test : 2006-08-31 10:08:07 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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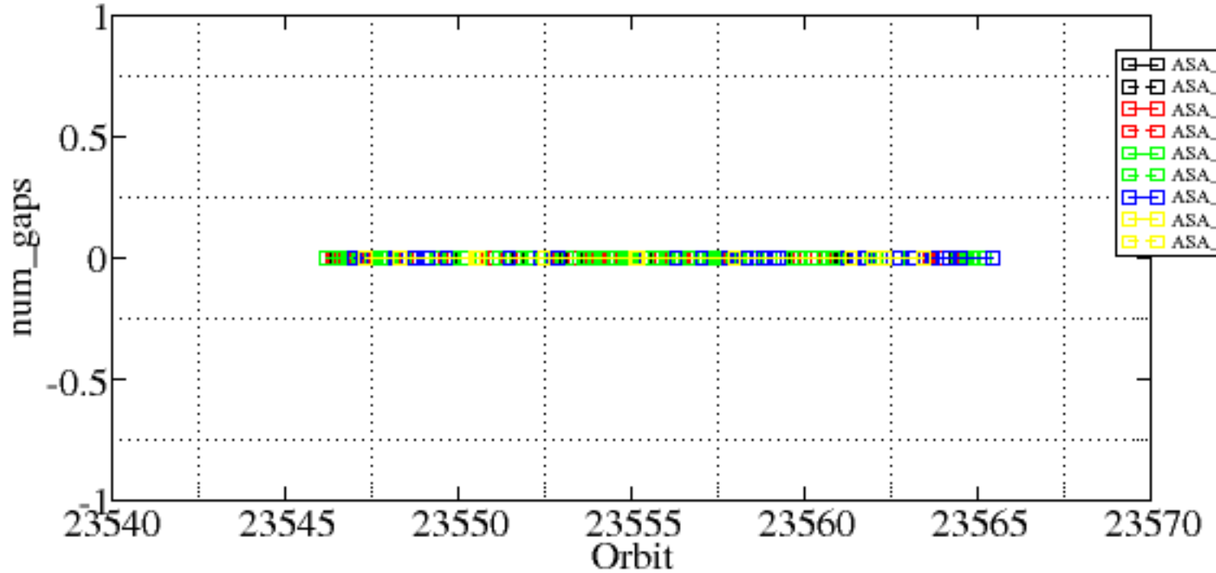
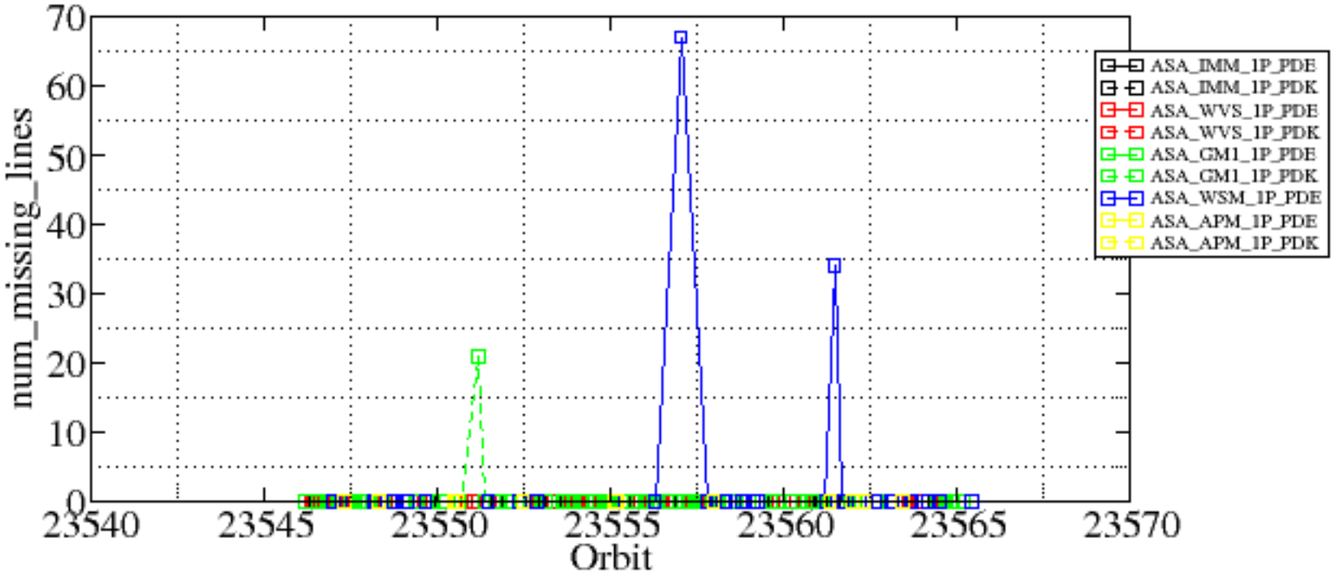
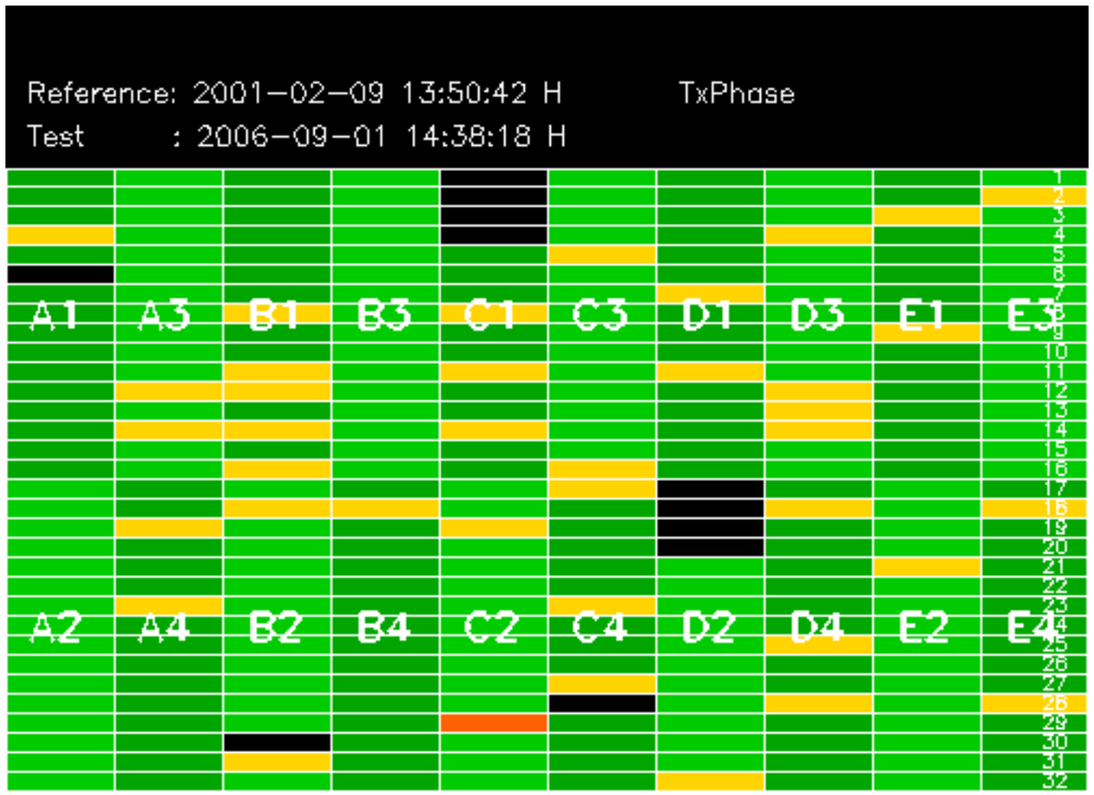
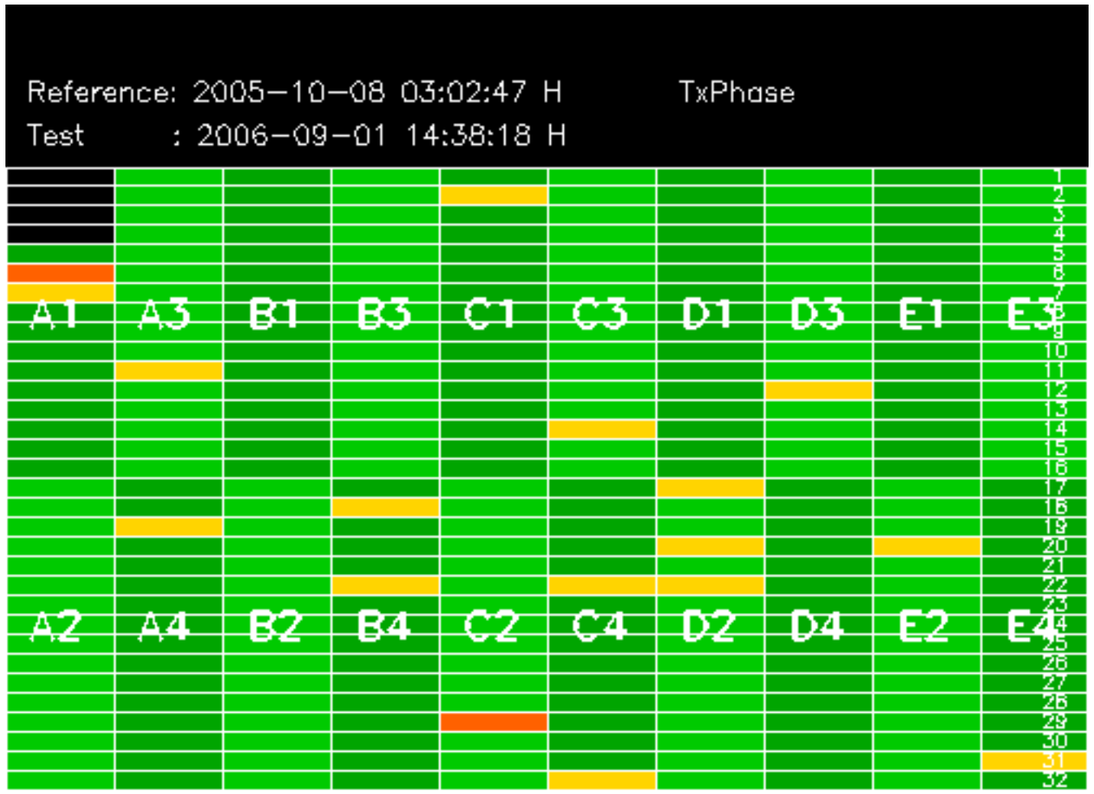
Summary of analysis for the last 3 days 2006090[112]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_GM1_1PNPDK20060901_084711_000006702050_00451_23551_3941.N1 </td> <td>0 </td> <td>21 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060901_183643_000002072050_00457_23557_0466.N1 </td> <td>0 </td> <td>67 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060902_020157_000000862050_00461_23561_0501.N1 </td> <td>0 </td> <td>34 </td></tr>
</table>


num_gaps
1
0.5
0
-0.5
-1
23540
23545
23550
23555
23560
23565
23570
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
70
60
50
40
30
20
10
0
23540
23545
23550
23555
23560
23565
23570
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_APM_1P_PDE
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2006-09-01 14:38:18 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2006-09-01 14:38:18 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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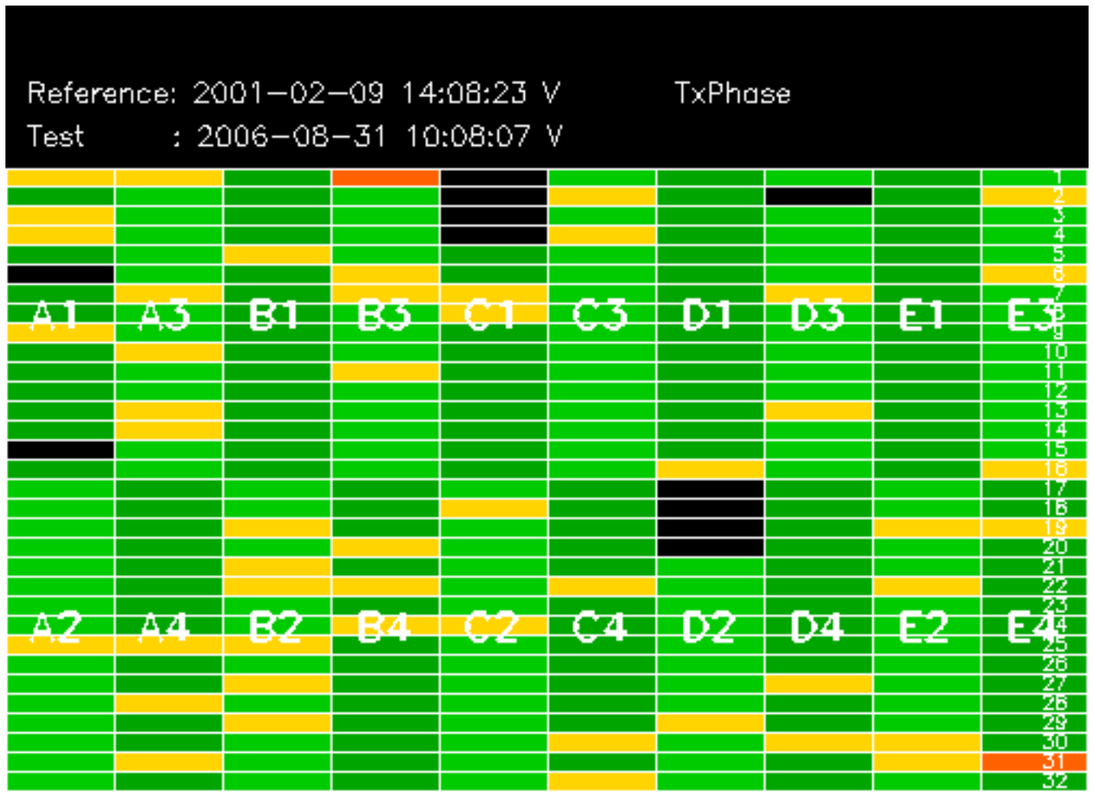
Reference: 2001-02-09 14:08:23 V
Test : 2006-08-31 10:08:07 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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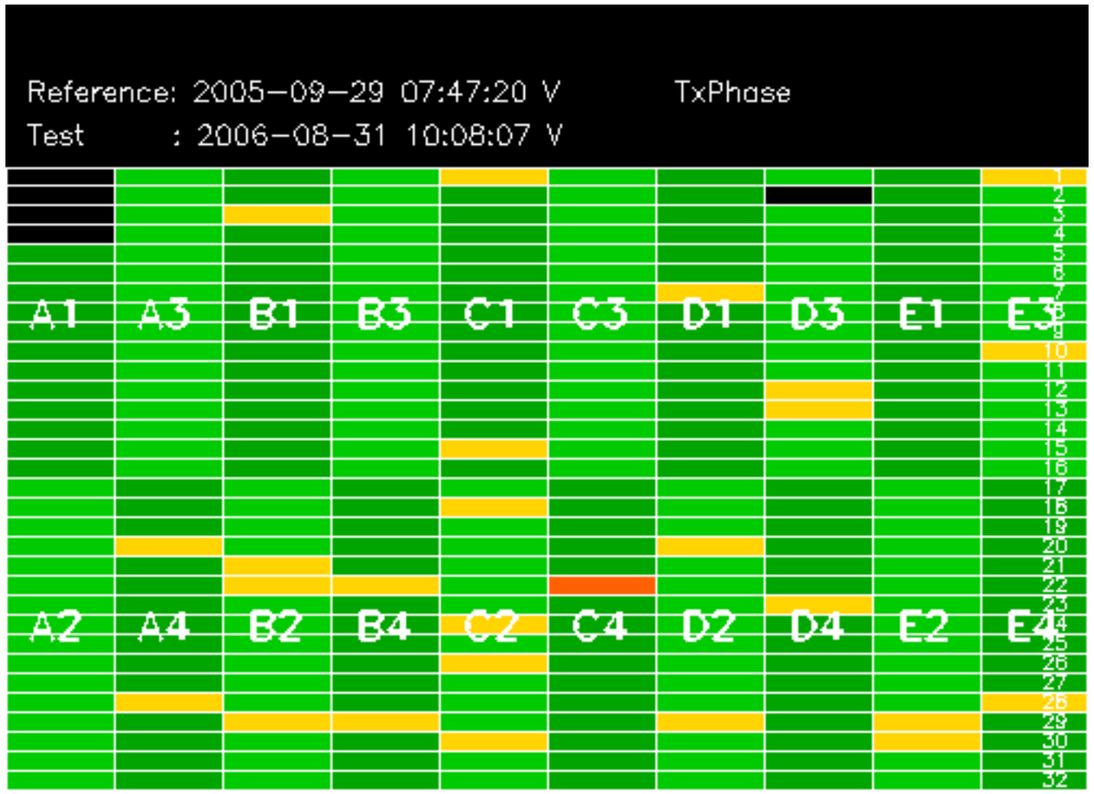
Reference: 2005-09-29 07:47:20 V
Test : 2006-08-31 10:08:07 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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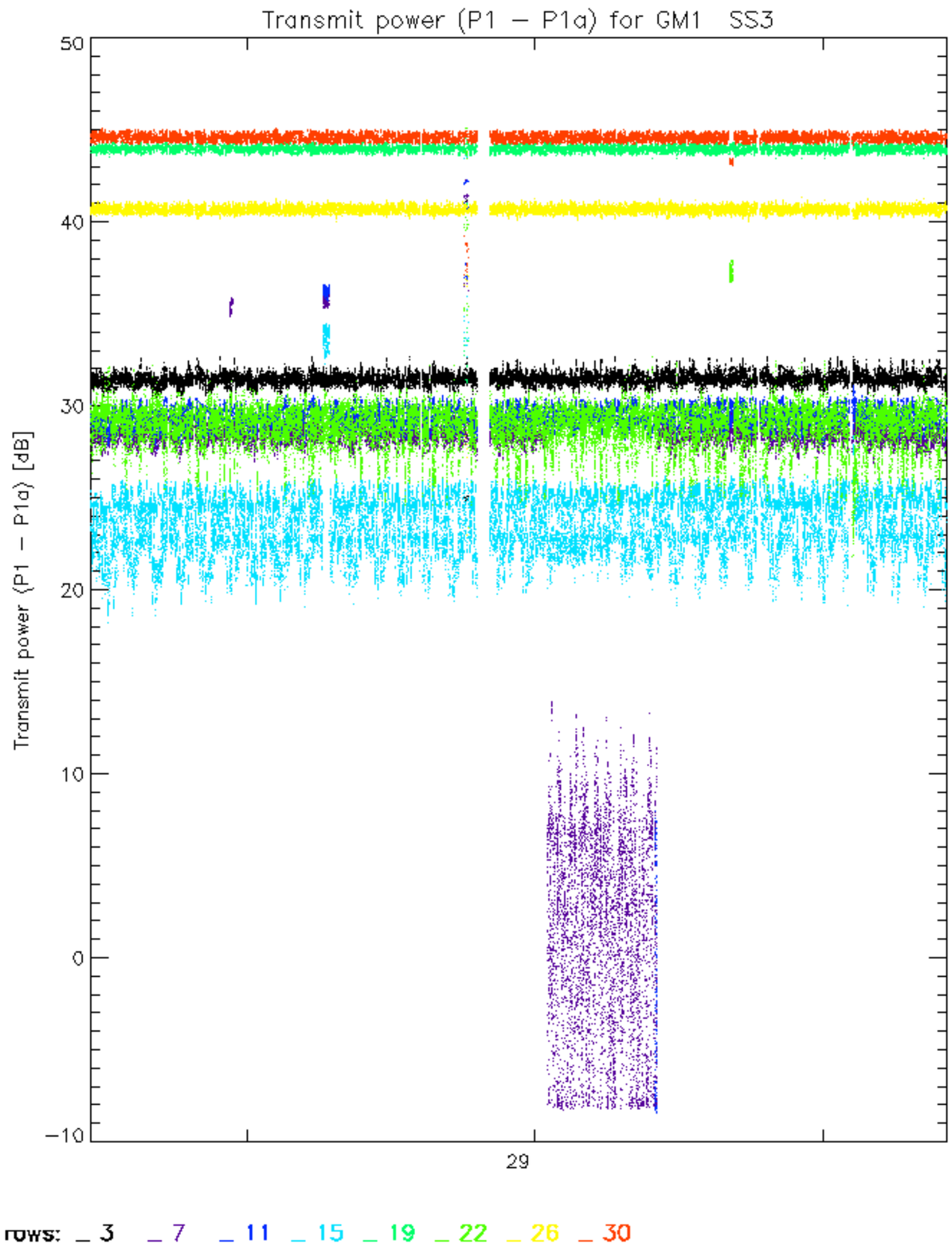
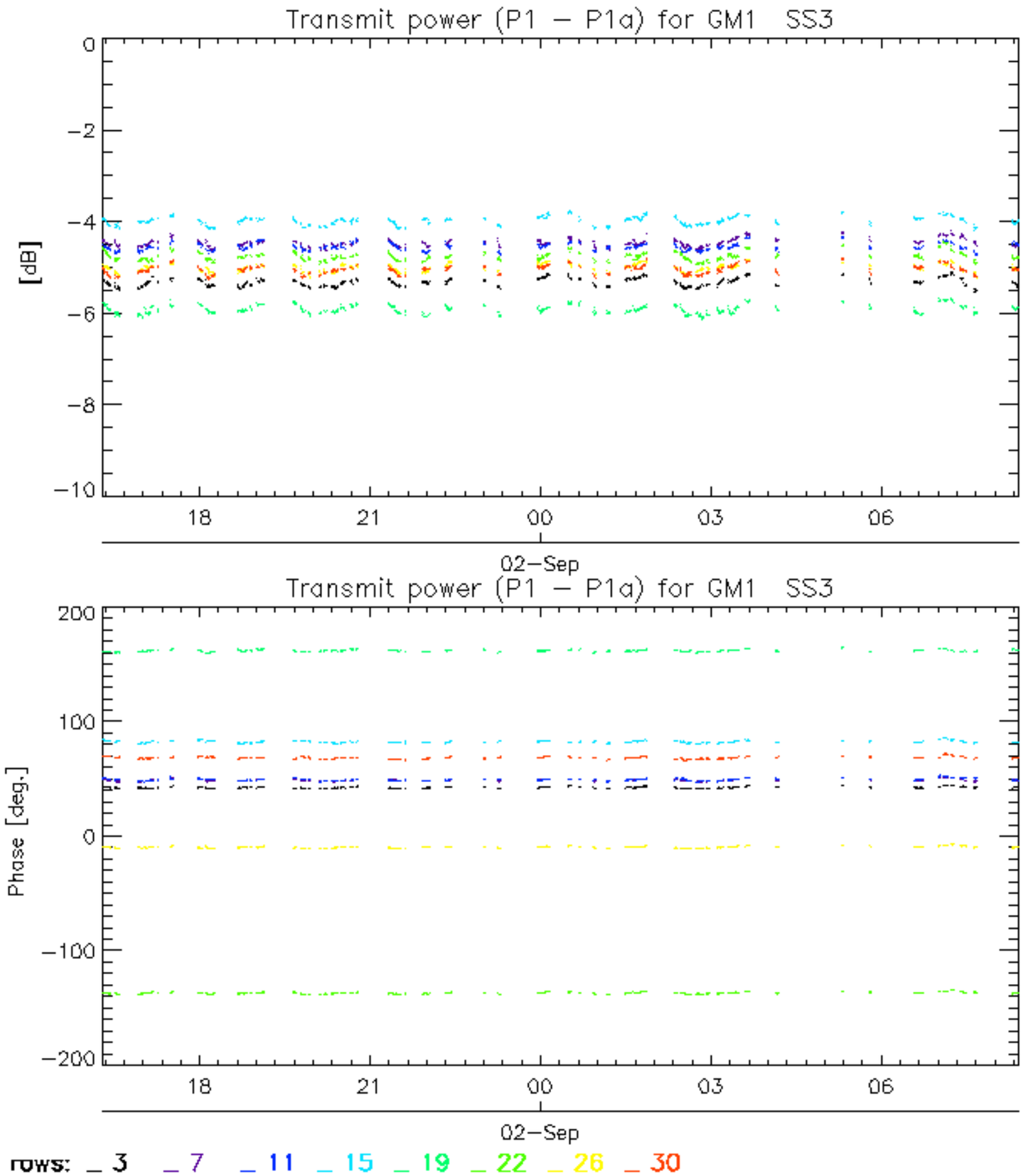
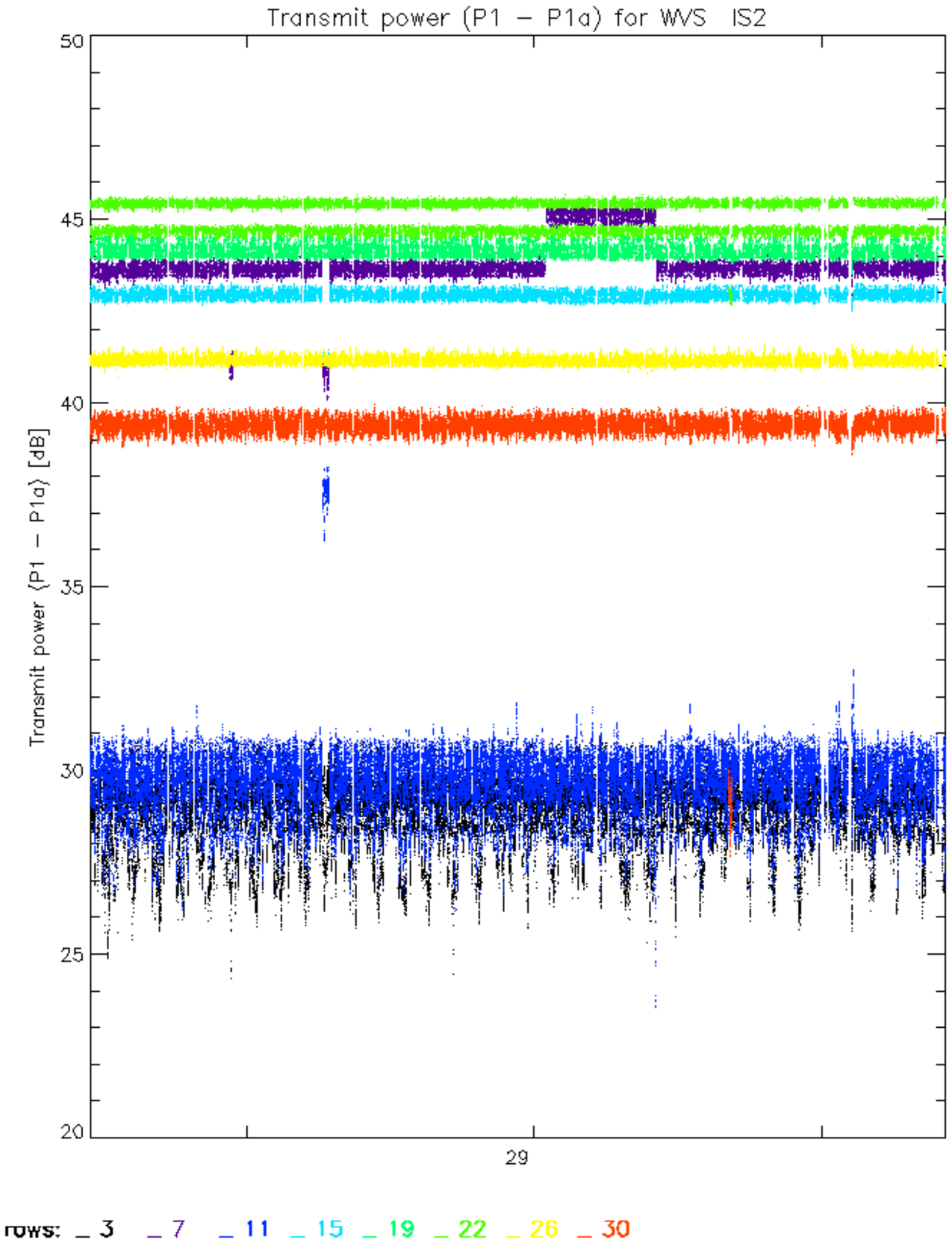
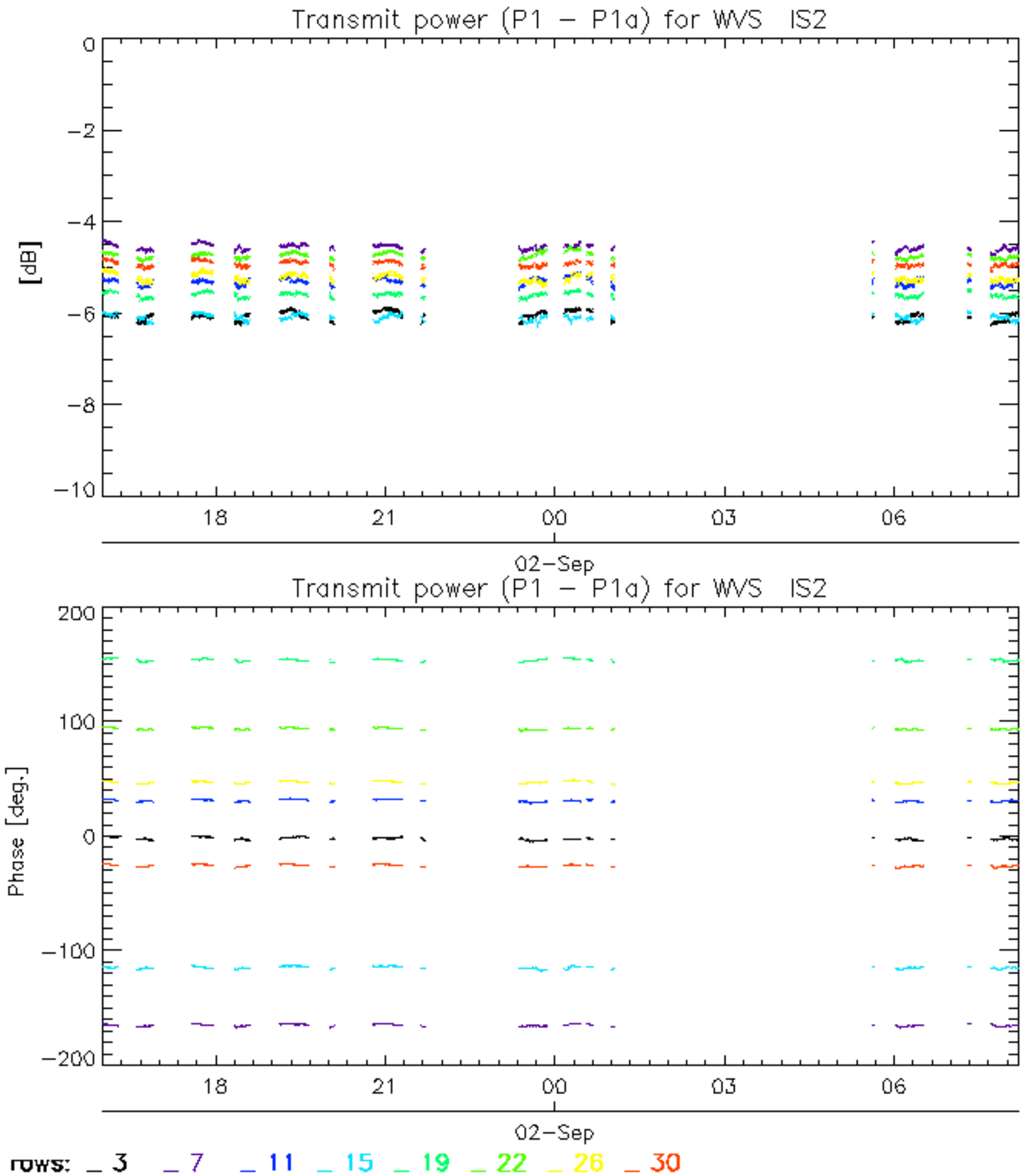

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
29
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
02–Sep
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
02–Sep
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
50
45
40
35
30
25
20
29
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
02–Sep
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
02–Sep
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.